

STADIA SURVEY NOTES

78195-2391-7

AREA W. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 41  
 LINE No.(s) L-47X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No.         
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No.       

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS              |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|----------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |                      |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |                      |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |                      |
| 3    | North            | 2200            |                   |          | 90-05-07        |             |         |             | 10.0        | +13.3               | +13.2             | 2073.6     |     | Δ       | SP. 1281 & BAS 78256 |
| 4    | "                | 2200            |                   |          | 269-55-15       |             |         |             | 10.0        | +13.0               |                   |            |     | Δ       |                      |
| 5    | "                | 1760            |                   |          | 91-09-33        |             |         |             | 4.0         | -39.6               |                   | 2034.0     |     | -       | 1282                 |
| 6    | "                | 1320            |                   |          | 91-57-29        |             |         |             | 4.0         | -49.1               |                   | 2024.5     |     | -       | 1283                 |
| 7    | "                | 880             |                   |          | 91-51-45        |             |         |             | 4.0         | -32.6               |                   | 2041.0     |     | -       | 1284                 |
| 8    | "                | 440             |                   |          | 91-40-52        |             |         |             | 4.0         | -16.9               |                   | 2056.7     |     | -       | 1285                 |
| 9    |                  | 0               |                   |          |                 |             |         |             | 5.7         | -5.7                |                   | 2067.9     |     | -       | 1286 T               |
| 10   | S                | 140             |                   |          | 88-31-39        |             |         |             | 4.0         | +7.3                |                   | 2080.9     |     | -       | 1287                 |
| 11   | "                | 880             |                   |          | 87-43-06        |             |         |             | 4.0         | +31.0               |                   | 2104.6     |     | -       | 1288                 |
| 12   | "                | 1320            |                   |          | 86-32-28        |             |         |             | 4.0         | +75.6               |                   | 2149.2     |     | -       | 1289                 |
| 13   | "                | 1760            |                   |          | 86-23-46        |             |         |             | 4.0         | +106.6              |                   | 2180.2     |     | -       | 1290                 |
| 14   | "                | 2200            |                   |          | 86-23-53        |             |         |             | 14.0        | +124.2              | +124.4            | 2198.0     |     | 0       | 1291                 |
| 15   | "                | 2200            |                   |          | 273-36-44       |             |         |             | 14.0        | +124.6              |                   |            |     | 0       |                      |
| 16   | N                | 980             |                   |          | 92-64-03        | 92          | 53-58   |             | 14.0        | +58.6               | +58.6             | 2256.6     |     | Δ       |                      |
| 17   | "                | 880             |                   |          | 267-06-20       |             |         |             | 14.0        | +58.4               |                   |            |     | Δ       |                      |
| 18   | "                | 440             |                   |          | 93-38-58        |             |         |             | 4.0         | -32.0               |                   | 2224.5     |     | -       | 1292                 |
| 19   |                  | 0               |                   |          |                 |             |         |             | 5.8         | -5.8                |                   | 2250.7     |     | -       | 1293 T               |
| 20   | S                | 440             |                   |          | 89-55-15        |             |         |             | 4.0         | -3.4                |                   | 2253.4     |     | -       | 1294                 |

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STADIA SURVEY NOTES

AREA W. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 42  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

16.4  
6.0  
4.0

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS     |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|-------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |             |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 2256.5     |     |         |             |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |             |
| 3    | S                | 880             |                   |          | 89-16-05        |             |         |             | 4.0         | +7.5                |                   | 2264.0     | -   | 1295    |             |
| 4    | "                | 1320            |                   |          | 89-12-30        |             |         |             | 9.0         | +14.2               |                   | 2270.7     | -   | 1296    |             |
| 5    | "                | 1760            |                   |          | 89-07-10        |             |         |             | 14.0        | +13.0               | +13.1             | 2269.6     | 0   | 1297    |             |
| 6    | "                | 1760            |                   |          | 270-53-13       |             |         |             | 14.0        | +13.2               |                   |            | 0   |         |             |
| 7    | N                | 440             |                   |          | 89-16-49        |             |         |             | 6.0         | +0.5                |                   | 2270.1     |     |         |             |
| 8    | "                | 440             |                   |          | 270-43-01       |             |         |             | 6.0         | +0.5                | +0.5              |            |     |         |             |
| 9    |                  | -0-             |                   |          |                 |             |         |             | 5.7         |                     | -5.7              | 2264.4     |     | 1298    | K           |
| 10   | S                | 440             |                   |          | 94-23-36        |             |         |             | 4.0         |                     | -37.7             | 2232.4     | -   | 1299    |             |
| 11   | "                | 880             |                   |          | 93-29-38        |             |         |             | 14.0        | -67.6               | -67.7             | 2202.4     | 0   | 1300    | End of line |
| 12   | "                | 880             |                   |          | 266-30-30       |             |         |             | 14.0        | -67.6               |                   |            | 0   |         |             |
| 13   | S                | 880             |                   |          | 93-48-11        |             |         |             | 10.0        | +67.6               | +67.6             | 2270.1     |     |         |             |
| 14   | "                | 880             |                   |          | 266-15-62       |             |         |             | 10.0        | +67.5               |                   |            |     |         |             |
| 15   |                  | -0-             |                   |          |                 |             |         |             | 5.8         |                     | -5.8              | 2264.3     |     |         | K           |
| 16   | N                | 440             |                   |          | 88-46-36        |             |         |             | 10.0        | -0.6                | -0.6              | 2269.5     | 0   |         | 1292        |
| 17   | "                | 440             |                   |          | 271-13-23       |             |         |             | 10.0        | -0.6                |                   |            | 0   |         |             |
| 18   | S                | 1800            |                   |          | 89-14-11        |             |         |             | 10.0        | -14.0               | -14.1             | 2255.4     |     |         |             |
| 19   | "                | 1800            |                   |          | 270-46-03       |             |         |             | 10.0        | -14.2               |                   |            |     |         |             |
| 20   |                  | -0-             |                   |          |                 |             |         |             | 5.8         |                     | -5.8              | 2249.8     |     |         | K           |

12.1  
3.0  
9.1  
18.2

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STADIA SURVEY NOTES

AREA W. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 43  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Δ B.S. OF.S. - S.S. | Station           | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------------------|-------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                     |                   |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     | 2255.4            |            |     |                     |                   |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 3    | N                | 1780            |                   |          | 93-03-18        |             |         | 14.0        | -108.9      | -108.9              |                   | 2146.5     | 0   |                     |                   |         |
| 4    | "                | 1780            |                   |          | 266-56-32       |             |         | 14.0        | -108.9      |                     |                   |            | 0   |                     |                   |         |
| 5    | S                | 1760            |                   |          | 87-07-57        |             |         | 2.0         | -86.0       | -86.3               |                   | 2066.2     | Δ   |                     |                   |         |
| 6    | "                | 1760            |                   |          | 272-53-05       |             |         | 2.0         | -86.6       |                     |                   |            | Δ   |                     |                   |         |
| 7    |                  | -0-             |                   |          |                 |             |         |             |             |                     |                   |            |     |                     | π                 |         |
| 8    | N                | 1760            |                   |          | 89-53-41        |             |         | 5.0         | -1.8        | -1.7                |                   | 2058.5     | 0   |                     |                   |         |
| 9    | "                | 1760            |                   |          | 278-06-41       |             |         | 5.0         | -1.6        |                     |                   |            | 0   |                     |                   |         |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 2060.4     |     |                     | BAS 78256 - ELEV. |         |
| 11   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | -1.9       |     |                     | VERT. MISTIE      |         |
| 12   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     | 2060.39           |         |
| 13   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 14   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 15   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                     |                   |         |

11.9  
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 8.9  
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 8.2

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DIST 78256 → 1300 = 8360  
 1300 → 78256 = 8420

B=60'

**STADIA SURVEY NOTES**

AREA W. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 44  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station        | REMARKS             |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|----------------|---------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                |                     |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                | common with sp 1281 |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                | 2060.39             |
| 3    | S                | 220             |                   |          | 88-48-50        |             |         | 1.0         | -3.9                | -3.7              | 2056.7      |       | Δ              |                     |
| 4    | "                | 220             |                   |          | 271-11-20       |             |         | 1.0         | -3.6                |                   |             |       | Δ <sub>1</sub> |                     |
| 5    |                  | 0               |                   |          |                 |             |         | 5.8         |                     | -5.8              |             |       |                | 1280-2 X 1281+220   |
| 6    | N                | 220             |                   |          | 95-37-31        |             |         | 14.0        | -35.6               | -35.5             | 2021.2      |       | 0              | 1280                |
| 7    | "                | 220             |                   |          | 264-23-10       |             |         | 14.0        | -35.5               |                   |             |       | 0 <sub>1</sub> |                     |
| 8    | S                | 1760            |                   |          | 85-06-36        |             |         | 15.0        | -135.0              | -135.2            | 1886.0      |       | Δ <sub>1</sub> |                     |
| 9    | "                | 1760            |                   |          | 274-54-08       |             |         | 15.0        | -135.4              |                   |             |       | Δ <sub>1</sub> |                     |
| 10   | "                | 1320            |                   |          | 85-14-54        |             |         | 4.0         |                     | +105.3            | 1991.3      |       | -              | 1279                |
| 11   | "                | 1880            |                   |          | 85-20-28        |             |         | 4.0         |                     | +67.5             | 1953.5      |       | -              | 1278                |
| 12   | "                | 440             |                   |          | 85-47-35        |             |         | 4.0         |                     | +28.3             | 1914.3      |       | -              | 1277                |
| 13   | "                | ~0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1880.2      |       | -              | 1276 X              |
| 14   | N                | 440             |                   |          | 92-55-31        |             |         | 4.0         |                     | -26.5             | 1859.5      |       | -              | 1275                |
| 15   | "                | 880             |                   |          | 91-41-40        |             |         | 4.0         |                     | -30.0             | 1856.0      |       | -              | 1274                |
| 16   | "                | 1320            |                   |          | 90-35-00        |             |         | 4.0         |                     | -17.4             | 1868.6      |       | -              | 1273                |
| 17   | "                | 1760            |                   |          | 89-38-20        |             |         | 4.0         |                     | +7.1              | 1893.1      |       | -              | 1272                |
| 18   | "                | 2200            |                   |          | 89-40-41        |             |         | 4.0         |                     | +12.3             | 1898.3      |       | -              | 1271                |
| 19   | "                | 2640            |                   |          | 89-21-18        |             |         | 10.0        | +19.7               | +20.1             | 1906.1      |       | 0              | 1270                |
| 20   | "                | 2640            |                   |          | 270-39-37       |             |         | 10.0        | +20.4               |                   |             |       | 0 <sub>1</sub> |                     |

F  
2/2  
1.0  
2.2

Take off

Bas 78256

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## STADIA SURVEY NOTES

AREA W. Tukuto Lake STATE or PROVINCE Alaska PAGE No. 45  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 1 Mo. 18 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |                | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|----------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD            |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1906.1     |                |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |         |         |
| 3    | S                | 2200            |                   |          | 87-48-44        |             |         | 5.0         | -79.0       | -79.2               | 1826.9            |            | Δ              | 1270    |         |
| 4    | "                | 2200            |                   |          | 272-12-02       |             |         | 5.0         | -79.5       |                     |                   |            | Δ <sub>1</sub> |         |         |
| 5    | "                | 1760            |                   |          | 88-04-42        |             |         | 4.0         |             | +55.2               | 1882.1            |            | -              | 1269    |         |
| 6    | "                | 1320            |                   |          | 88-38-45        |             |         | 4.0         |             | +27.2               | 1854.1            |            | -              | 1268    |         |
| 7    | "                | 880             |                   |          | 89-27-10        |             |         | 4.0         |             | +4.4                | 1831.3            |            | -              | 1267    |         |
| 8    | "                | 440             |                   |          | 89-54-28        |             |         | 4.0         |             | -3.3                | 1823.6            |            | -              | 1266    |         |
| 9    |                  | -0-             |                   |          | 87-54-28        |             |         | 5.9         |             | -5.9                | 1815.4            |            | -              | 1265    | π       |
| 10   | N                | 440             |                   |          | 90-27-47        |             |         | 4.0         |             | -7.6                | 1819.3            |            | -              | 1264    |         |
| 11   | "                | 880             |                   |          | 89-55-08        |             |         | 4.0         |             | -2.8                | 1824.1            |            | -              | 1263    |         |
| 12   | "                | 1320            |                   |          | 89-45-22        |             |         | 4.0         |             | +1.6                | 1828.5            |            | -              | 1262    |         |
| 13   | "                | 1760            |                   |          | 89-45-53        |             |         | 10.0        | -2.8        | -2.6                | 1824.3            |            | 0              | 1261    |         |
| 14   | "                | 1760            |                   |          | 270-14-40       |             |         | 10.0        | -2.5        |                     |                   |            | 0              |         |         |
| 15   | S                | 1870            |                   |          | 93-49-36        |             |         | 10.0        | +134.8      | +134.6              | 1958.9            |            | Δ              |         |         |
| 16   | "                | 1870            |                   |          | 266-11-08       |             |         | 10.0        | +134.4      |                     |                   |            | Δ <sub>1</sub> |         |         |
| 17   | "                | 1430            |                   |          | 95-39-25        |             |         | 4.0         |             | -145.0              | 1813.9            |            | -              | 1260    |         |
| 18   | "                | 990             |                   |          | 97-54-00        |             |         | 4.0         |             | -140.1              | 1818.8            |            | -              | 1259    |         |
| 19   | "                | 550             |                   |          | 100-39-37       |             |         | 4.0         |             | -105.7              | 1853.2            |            | -              | 1258    |         |
| 20   | "                | 110             |                   |          | 103-59-25       |             |         | 4.0         |             | -30.6               | 1928.3            |            | -              | 1257    |         |

TI-588B

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**STADIA SURVEY NOTES**

AREA W. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 46  
 LINE No.(s) L-47X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |        | AB.S.<br>OF.S.<br>-S.S. | Station    | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|--------|-------------------------|------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST.  |                         |            |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 1952.9      |        |                         |            |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |        |                         |            |         |
| 3    | O                | -0-             |                   |          |                 |             |         |            |                     |                   |             |        | 1256-3                  | K 1250+330 |         |
| 4    | N                | 330             |                   |          | 93-35-01        |             |         |            |                     | 5.8               | -5.8        |        | 1256                    |            |         |
| 5    | "                | 776             |                   |          | 93-10-44        |             |         |            |                     | 4.0               | -24.6       | 1922.5 | 1256                    |            |         |
| 6    | "                | 1210            |                   |          | 92-42-16        |             |         |            |                     | 4.0               | -46.7       | 1881.6 | 1255                    |            |         |
| 7    | "                | 1650            |                   |          | 91-59-08        |             |         |            |                     | 4.0               | -61.1       | 1867.2 | 1254                    |            |         |
| 8    | "                | 2090            |                   |          | 91-05-07        |             |         |            |                     | 4.0               | -60.7       | 1867.6 | 1253                    |            |         |
| 9    | "                | 2090            |                   |          | 268-55-20       |             |         |            |                     | 14.0              | -53.6       | 1905.5 | 1252                    |            |         |
| 10   | S                | 2640            |                   |          | 91-18-26        |             |         |            |                     | 14.0              | -53.3       |        | 0                       |            |         |
| 11   | "                | 2640            |                   |          | 268-42-08       |             |         |            |                     | 10.0              | +70.2       | +70.0  | 1976.5                  | A          |         |
| 12   | "                | 2200            |                   |          | 91-26-20        |             |         |            |                     | 10.0              | +69.8       |        | 0                       |            |         |
| 13   | "                | 1760            |                   |          | 91-30-53        |             |         |            |                     | 4.0               | -59.2       | 1916.3 | 1251                    |            |         |
| 14   | "                | 1320            |                   |          | 91-48-16        |             |         |            |                     | 4.0               | -50.5       | 1925.0 | 1250                    |            |         |
| 15   | "                | 880             |                   |          | 92-42-02        |             |         |            |                     | 4.0               | -45.6       | 1929.9 | 1249                    |            |         |
| 16   | "                | 440             |                   |          | 92-33-01        |             |         |            |                     | 4.0               | -45.5       | 1930.0 | 1248                    |            |         |
| 17   |                  | -0-             |                   |          |                 |             |         |            |                     | 4.0               | -23.6       | 1951.9 | 1247                    |            |         |
| 18   | N                | 440             |                   |          | 86-08-53        |             |         |            |                     | 5.9               | -5.9        | 1969.6 | 1246                    | K          |         |
| 19   | "                | 880             |                   |          | 86-27-09        |             |         |            |                     | 4.0               | +25.0       | 2001.1 | 1245                    |            |         |
| 20   | "                | 1320            |                   |          | 86-26-34        |             |         |            |                     | 4.0               | +49.9       | 2025.4 | 1244                    |            |         |
|      |                  |                 |                   |          |                 |             |         |            |                     | 4.0               | +77.9       | 2053.4 | 1243                    |            |         |

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**STADIA SURVEY NOTES**

AREA W. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 47  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS                                      |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|--|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |  |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1975.5     |     |         |  |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |  |
| 3    | N                | 1760            |                   |          | 86-25-31        |             |         | 4.0         |             | +105.7              |                   | 2081.2     | -   | 1242    |  |
| 4    | "                | 2260            |                   |          | 86-26-08        |             |         | 10.0        | +126.8      | +126.9              |                   | 2102.4     | 0   | 1241    |  |
| 5    | "                | 2200            |                   |          | 273-74-15       |             |         | 1.0         | +127.0      |                     |                   |            | 0   |         |  |
| 6    | S                | 1430            |                   |          | 93-58-57        |             |         | 5.0         | +104.3      | +104.3              | 2206.7            |            | Δ   |         |  |
| 7    | "                | 1430            |                   |          | 266-01-16       |             |         | 5.0         | +104.2      |                     |                   |            | Δ   |         |  |
| 8    | "                | 990             |                   |          | 94-29-42        |             |         | 4.0         |             | -81.6               |                   | 2125.1     | -   | 1240    |  |
| 9    | "                | 550             |                   |          | 95-23-55        |             |         | 4.0         |             | -55.7               |                   | 2151.0     | -   | 1239    |  |
| 10   | "                | 110             |                   |          | 98-25-22        |             |         | 4.0         |             | -14.4               |                   | 2192.3     | -   | 1238    |  |
| 11   |                  | ~0~             |                   |          |                 |             |         | 5.8         |             | -5.8                |                   | 2200.9     | -   | 1237-3  | 1237+350                                     |
| 12   | N                | 330             |                   |          | 88-19-28        |             |         | 4.0         |             | +5.7                |                   | 2212.4     | -   | 1239    |  |
| 13   | "                | 770             |                   |          | 87-52-24        |             |         | 4.0         |             | +24.6               |                   | 2231.3     | -   | 1236    |  |
| 14   | "                | 1210            |                   |          | 87-59-06        |             |         | 4.0         |             | +38.5               |                   | 2245.2     | -   | 1235    |  |
| 15   | "                | 1650            |                   |          | 87-58-34        |             |         | 13.0        | +45.3       | +45.6               |                   | 2252.3     | 0   | 1234    | Traverse taken from here, West to Bas. 72195 |
| 16   | "                | 1650            |                   |          | 272-02-50       |             |         | 13.0        | +45.9       |                     |                   |            | 0   |         |  |
| 17   | E                | 620             |                   |          | 95-35-36        |             |         | 13.0        | +73.4       | +73.4               | 2325.7            |            | Δ   |         |  |
| 18   | "                | 620             |                   |          | 204-25-14       |             |         | 13.0        | +73.5       |                     |                   |            | Δ   |         |  |
| 19   | W                | 2240            |                   |          | 88-09-24        |             |         | 5.0         | +67.1       | +67.1               |                   | 2392.8     | 0   |         |  |
| 20   | "                | 2240            |                   |          | 271-58-53       |             |         | 5.0         | +67.2       |                     |                   |            | 0   |         |  |

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9.2  
3.0  
6.2  
4

### STADIA SURVEY NOTES

AREA W. Tokuto Lake STATE or PROVINCE Alaska PAGE No. 48  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 1 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen (DJ) RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS    |     | B.S. OF S. - S.S. | Station | REMARKS                               |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|---------------|-----|-------------------|---------|---------------------------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.         | ROD |                   |         |                                       |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         | Continuation from<br>page 47-L-19, 20 |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 3    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 2392.8        | 0   |                   |         |                                       |
| 4    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               | 0   |                   |         |                                       |
| 5    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | <u>2391.7</u> |     |                   |         | TRUE ELEV. 78195'                     |
| 6    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | +1.1          |     |                   |         | VERT. MISTIE 2391.69                  |
| 7    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 8    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 9    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 11   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 12   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 13   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 14   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 15   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |               |     |                   |         |                                       |

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STADIA SURVEY NOTES

AREA N. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 49  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

9.3  
2.0  
7.3  
2  
12.1  
8.0  
4.1  
12.2  
16.0  
2.2  
10.0  
2.2  
8.0

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                     | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|---------------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor     | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |         |         |
| 1    |                  |                 |                   |          |                     |             |         |            |                     |                   |             |       |         |         |
| 2    |                  |                 |                   |          |                     |             |         |            |                     |                   |             |       |         |         |
| 3    | W                | 2240            |                   |          | 88-09-33            |             |         |            |                     |                   |             |       |         |         |
| 4    | "                | 2240            |                   |          | 271-50-58           |             |         |            |                     |                   |             |       |         |         |
| 5    | E                | 820             |                   |          | 95-12-00            |             |         |            |                     |                   |             |       |         |         |
| 6    | "                | 820             |                   |          | 264-48-16           |             |         |            |                     |                   |             |       |         |         |
| 7    | S                | 440.560         |                   |          | 86-38-16            |             |         |            |                     |                   |             |       |         |         |
| 8    | "                | 560             |                   |          | 273-21-42           |             |         |            |                     |                   |             |       |         |         |
| 9    | "                | 110             |                   |          | 87-03-55            |             |         |            |                     |                   |             |       |         |         |
| 10   |                  | -0~             |                   |          |                     |             |         |            |                     |                   |             |       |         |         |
| 11   | N                | 330             |                   |          | 98-08-30            |             |         |            |                     |                   |             |       |         |         |
| 12   | "                | 270             |                   |          | 94-46-19            |             |         |            |                     |                   |             |       |         |         |
| 13   | "                | 770             |                   |          | 265-13-44           |             |         |            |                     |                   |             |       |         |         |
| 14   |                  |                 |                   |          | <del>86-05-32</del> |             |         |            |                     |                   |             |       |         |         |
| 15   | S                | 1540            |                   |          | 273-36-12           |             |         |            |                     |                   |             |       |         |         |
| 16   | "                | 1540            |                   |          | 86-23-50            |             |         |            |                     |                   |             |       |         |         |
| 17   | "                | 1106            |                   |          | 86-43-46            |             |         |            |                     |                   |             |       |         |         |
| 18   | "                | 660             |                   |          | 86-37-21            |             |         |            |                     |                   |             |       |         |         |
| 19   | "                | 220             |                   |          | 92-12-15            |             |         |            |                     |                   |             |       |         |         |
| 20   |                  | -0~             |                   |          |                     |             |         |            |                     |                   |             |       |         |         |

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**STADIA SURVEY NOTES**

AREA N. Tukoto STATE or PROVINCE Alaska PAGE No. 50  
 LINE No.(s) 47 X PARTY No. \_\_\_\_\_ DATE 2 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |                | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|----------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD            |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     | 2048.6            |            |                |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |         |         |
| 3    | N                | 220             |                   |          | 95-40-15        |             |         | 15.0        |             | -36.7               |                   | 2011.9     | -              | 1226    |         |
| 4    | "                | 660             |                   |          | 95-20-10        |             |         | 4.0         |             | -65.4               |                   | 1983.2     | -              | 1225    |         |
| 5    | "                | 1100            |                   |          | 93-26-23        |             |         | 4.0         |             | -70.0               |                   | 1978.6     | -              | 1224    |         |
| 6    | "                | 1540            |                   |          | 91-59-08        |             |         | 14.0        | +67.4       | -67.3               |                   | 1981.3     | 0              | 1223    |         |
| 7    | "                | 1540            |                   |          | 268-01-15       |             |         | 14.0        | -67.2       |                     |                   |            | 0              |         |         |
| 8    | S                | 1760            |                   |          | 90-22-852       |             |         | 10.0        | +21.7       | +21.6               | 2002.9            |            | Δ <sub>1</sub> |         |         |
| 9    | "                | 1760            |                   |          | 269-37-28       |             |         | 10.0        | +21.5       |                     |                   |            | Δ <sub>1</sub> |         |         |
| 10   | "                | 1320            |                   |          | 91-31-16        |             |         | 4.0         |             | -39.0               |                   | 1963.9     | -              | 1222    |         |
| 11   | "                | 880             |                   |          | 91-35-06        |             |         | 10.0        |             | -34.3               |                   | 1968.6     | -              | 1221    |         |
| 12   | "                | 440             |                   |          | 91-32-43        |             |         | 4.0         |             | -15.9               |                   | 1987.0     | -              | 1220    |         |
| 13   |                  | -0-             |                   |          |                 |             |         | 5.8         |             | -5.8                |                   | 1997.1     |                | 1219    |         |
| 14   | N                | 440             |                   |          | 92-25-26        |             |         | 14.0        | -32.6       | -32.6               |                   | 1970.3     | 0              | 1218    |         |
| 15   | "                | 440             |                   |          | 267-35-01       |             |         | 14.0        | -32.6       |                     |                   |            | 0              |         |         |
| 16   | "                | 2700            |                   |          | 82-27-59        |             |         | 5.0         | +283.4      | -283.7              | 1686.6            |            | Δ <sub>1</sub> |         |         |
| 17   | "                | 2200            |                   |          | 277-32-55       |             |         | 5.0         | -284.0      |                     |                   |            | Δ <sub>1</sub> |         |         |
| 18   | "                | 1760            |                   |          | 84-01-01        |             |         | 4.0         |             | +199.6              |                   | 1866.1     | -              | 1217    |         |
| 19   | "                | 1320            |                   |          | 84-58-59        |             |         | 4.0         |             | +111.4              |                   | 1798.0     | -              | 1216    |         |
| 20   | "                | 880             |                   |          | 85-36-56        |             |         | 4.0         |             | +63.3               |                   | 1749.9     | -              | 1215    |         |

↑ High Bluff - from here descent begins into valley ~

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## STADIA SURVEY NOTES

AREA N. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 51  
 LINE No.(s) 47X PARTY No. \_\_\_\_\_ DATE 2 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1686.6     |     |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |
| 3    | S                | 440             |                   |          | 86-03-51        |             |         | 4.0         |             | +26.2               |                   | 1712.8     | -   | 1214    |         |
| 4    |                  | ~0~             |                   |          |                 |             |         | 5.8         |             | -5.8                |                   | 1680.8     | -   | 1213    | π       |
| 5    | N                | 440             |                   |          | 94-06-39        |             |         | 4.0         |             | -35.5               |                   | 1651.1     | -   | 1212    |         |
| 6    | "                | 880             |                   |          | 93-39-38        |             |         | 4.0         |             | -60.2               |                   | 1626.4     | -   | 1211    |         |
| 7    | "                | 1320            |                   |          | 93-43-53        |             |         | 18.0        |             | -103.9              |                   | 1582.7     | -   | 1210    |         |
| 8    | "                | 1760            |                   |          | 93-46-18        |             |         | 10.0        |             | -122.7              |                   | 1563.9     | -   | 1209    |         |
| 9    | "                | 2200            |                   |          | 92-55-03        |             |         | 14.0        | -126.0      | -125.8              | ✓                 | 1560.8     | 0   | 1208    |         |
| 10   | "                | 2200            |                   |          | 262-05-28       |             |         | 14.0        | -125.6      |                     |                   |            | 0   |         |         |
| 11   | S                | 2640            |                   |          | 89-42-53        |             |         | 10.0        | -3.1        | -3.3                | ✓                 | 1567.6     | Δ   |         |         |
| 12   | "                | 2640            |                   |          | 270-17-27       |             |         | 10.0        | -3.4        |                     |                   |            | Δ   |         |         |
| 13   | "                | 2200            |                   |          | 89-45-09        |             |         | 10.0        |             | -0.5                |                   | 1557.0     | -   | 1207    |         |
| 14   | "                | 1760            |                   |          | 89-55-37        |             |         | 5.0         |             | -2.8                |                   | 1554.7     | -   | 1206    |         |
| 15   | "                | 1320            |                   |          | 90-03-41        |             |         | 5.0         |             | -6.4                |                   | 1551.1     | -   | 1205    |         |
| 16   | "                | 880             |                   |          | ✓               |             |         | 7.6         |             | -7.6                |                   | 1549.9     | -   | 1204    |         |
| 17   | "                | 440             |                   |          | 90-30-45        |             |         | 4.0         |             | -7.9                |                   | 1549.6     | -   | 1203    |         |
| 18   |                  | ~0~             |                   |          |                 |             |         | 5.8         |             | -5.8                |                   | 1551.7     | -   | 1202    | π       |
| 19   | N                | 440             |                   |          | 90-34-07        |             |         | 4.0         |             | -8.8                |                   | 1548.7     | -   | 1201    |         |
| 20   | "                | 880             |                   |          | 90-30-44        |             |         | 4.0         |             | -11.9               |                   | 1545.6     | -   | 1200    |         |

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## STADIA SURVEY NOTES

AREA N. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 52  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | A.B.S. OF S. - S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|-------------|---------------------|-------------------|------------|-----|---------------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |             |                     |                   | INST.      | ROD |                     |         |         |
| 1    |                  |                 |                   |          |                 |             |         |            |             |                     | 1557.5            |            |     |                     |         |         |
| 2    |                  |                 |                   |          |                 |             |         |            |             |                     |                   |            |     |                     |         |         |
| 3    | N                | 1320            |                   |          | 90-28-52        |             |         | 4.0        |             | -15.1               |                   | 1542.4     | -   | 1199                |         |         |
| 4    | "                | 1760            |                   |          | 90-20-51        |             |         | 4.0        |             | -4.7                |                   | 1542.8     | -   | 1198                |         |         |
| 5    | "                | 2200            |                   |          | 90-20-33        |             |         | 4.0        |             | -17.2               |                   | 1540.3     | -   | 1197                |         |         |
| 6    | "                | 2640            |                   |          | 90-17-08        |             |         | 5.0        | -18.2       | -18.0               | ✓                 | 1539.5     | 0   | 1196                |         |         |
| 7    | "                | 2640            |                   |          | 269-43-23       |             |         | 5.0        | -17.8       |                     |                   |            | 0   |                     |         |         |
| 8    | S                | 1760            |                   |          | 90-03-12        |             |         | 10.0       | +11.6       | +11.6               | ✓                 | 1531.1     | Δ   |                     |         |         |
| 9    | "                | 1760            |                   |          | 269-57-07       |             |         | 10.0       | +11.5       |                     |                   |            | Δ   |                     |         |         |
| 10   | "                | 1320            |                   |          | 90-00-46        |             |         | 14.0       |             | -14.3               |                   | 1536.8     | -   | 1195                |         |         |
| 11   | "                | 880             |                   |          | 89-59-23        |             |         | 14.0       |             | -13.8               |                   | 1537.3     | -   | 1194                |         |         |
| 12   | "                | 440             |                   |          | 89-38-15        |             |         | 4.0        |             | -1.2                |                   | 1549.9     | -   | 1193                |         |         |
| 13   | "                | 0~              |                   |          |                 |             |         | 5.9        |             | -5.9                |                   | 1545.2     | -   | 1192                | π       |         |
| 14   | N                | 440             |                   |          | 89-57-29        |             |         | 4.0        |             | -3.7                |                   | 1547.4     | -   | 1191                |         |         |
| 15   | "                | 880             |                   |          | 89-29-15        |             |         | 4.0        |             | +3.9                |                   | 1555.0     | -   | 1190                |         |         |
| 16   | "                | 1320            |                   |          | 88-16-14        |             |         | 4.0        |             | +35.8               |                   | 1586.9     | -   | 1189                |         |         |
| 17   | "                | 1760            |                   |          | 88-22-09        |             |         | 5.0        | +45.1       | +45.3               | ✓                 | 1596.4     | 0   | 1188                |         |         |
| 18   | "                | 1760            |                   |          | 271-38-33       |             |         | 5.0        | +45.4       |                     |                   |            | 0   |                     |         |         |
| 19   | S                | 550             |                   |          | 89-04-17        |             |         | 5.0        | -3.9        | -4.0                | ✓                 | 1592.4     | Δ   |                     |         |         |
| 20   | "                | 550             |                   |          | 270-56-30       |             |         | 5.0        | -4.0        |                     |                   |            | Δ   |                     |         |         |

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## STADIA SURVEY NOTES

AREA N. Tokuto Lake STATE or PROVINCE Alaska PAGE No. 53  
 LINE No.(s) 47X PARTY No. 1184 DATE 3 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station                     | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-----------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                             |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     | 1592.9            |            |     |                             |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                             |         |
| 3    | S                | 110             |                   |          | 89-56-08        |             |         | 4.0         |             | -3.9                |                   | 1588.5     | -   | 1187                        |         |
| 4    |                  | ~0~             |                   |          |                 |             |         | 5.8         |             | -5.8                |                   | 1586.6     | -   | 1188-3 T 1188+330'          |         |
| 5    | N                | 330             |                   |          | 93-52-56        |             |         | 14.0        |             | -36.2               |                   | 1556.1     | -   | 1186 sp's 26-29 are on      |         |
| 6    | "                | 770             |                   |          | 93-48-35        |             |         | 17.0        |             | -68.2               |                   | 1524.2     | -   | 1185 on a small bluff       |         |
| 7    | "                | 1270            |                   |          | 92-53-45        |             |         | 10.0        | -71.1       | -71.1               | ✓                 | 1521.3     | 0   | 1184 or hill that protrudes |         |
| 8    | "                | 1210            |                   |          | 267-06-20       |             |         | 10.0        | -71.1       |                     |                   |            | 0   | from valley basin           |         |
| 9    | S                | 1760            |                   |          | 89-42-45        |             |         | 5.0         | -3.8        | -4.0                | ✓                 | 1517.3     | Δ   |                             |         |
| 10   | "                | 1760            |                   |          | 276-18-02       |             |         | 5.0         | -4.2        |                     |                   |            | Δ   |                             |         |
| 11   | "                | 1320            |                   |          | 89-45-16        |             |         | 4.0         |             | +1.7                |                   | 1519.0     | -   | 1183                        |         |
| 12   | "                | 880             |                   |          | 89-49-05        |             |         | 4.0         |             | -1.2                |                   | 1516.1     | -   | 1182                        |         |
| 13   | "                | 440             |                   |          | 90-06-36        |             |         | 4.0         |             | -4.8                |                   | 1512.5     | -   | 1181                        |         |
| 14   |                  | ~0~             |                   |          |                 |             |         | 5.8         |             | -5.8                |                   | 1511.5     | -   | 1180 T                      |         |
| 15   | N                | 440             |                   |          | 90-34-30        |             |         | 4.0         |             | -8.4                |                   | 1508.9     | -   | 1179                        |         |
| 16   | "                | 880             |                   |          | 90-06-24        |             |         | 4.0         |             | -5.6                |                   | 1511.7     | -   | 1178                        |         |
| 17   | "                | 1320            |                   |          | 90-08-48        |             |         | 4.0         |             | -7.4                |                   | 1509.9     | -   | 1177                        |         |
| 18   | "                | 1760            |                   |          | 90-02-46        |             |         | 10.0        | -11.4       | -11.3               | ✓                 | 1506.0     | 0   | 1176                        |         |
| 19   | "                | 1760            |                   |          | 269-57-52       |             |         | 10.0        | -11.1       |                     |                   |            | 0   |                             |         |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                             |         |

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## STADIA SURVEY NOTES

AREA N. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 54  
 LINE No.(s) 47X PARTY No. 1184 DATE 3 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station  | REMARKS        |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|----------|----------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |          |                |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 1506.0      | 0     | 1176     |                |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |          |                |
| 3    | S                | 1870            |                   |          | 91-52-08        |             |         | 10.0       | +71.0               | -70.8 ✓           | 1546.8      |       |          |                |
| 4    | "                | 1870            |                   |          | 268-08-26       |             |         | 10.0       | +70.7               |                   |             |       |          |                |
| 5    | "                | 1430            |                   |          | 92-44-22        |             |         | 4.0        |                     | -72.3             | 1504.6      | -     | 1175     |                |
| 6    | "                | 990             |                   |          | 94-05-00        |             |         | 4.0        |                     | -74.5             | 1502.3      | -     | 1174     |                |
| 7    | "                | 550             |                   |          | 94-46-49        |             |         | 22.0       |                     | -67.8             | 1509.0      | -     | 1173     | Bottom of hill |
| 8    | "                | 110             |                   |          | 93-03-46        |             |         | 4.0        |                     | -9.9              | 1566.9      | -     | 1172     |                |
| 9    |                  | 0               |                   |          |                 |             |         | 5.8        |                     | -5.8              | 1571.0      |       | 1171-3 X | 1171+330       |
| 10   | N                | 330             |                   |          | 91-23-27        |             |         | 4.0        |                     | -12.0             | 1564.8      | -     | 1171     |                |
| 11   | "                | 770             |                   |          | 91-43-48        |             |         | 4.0        |                     | -21.2             | 1549.6      | -     | 1170     |                |
| 12   | "                | 1210            |                   |          | 91-47-14        |             |         | 4.0        |                     | -41.7             | 1535.1      | -     | 1169     |                |
| 13   | "                | 1650            |                   |          | 91-50-32        |             |         | 21.0       |                     | -74.1             | 1502.7      | -     | 1168     | BASE of Hill   |
| 14   | "                | 2090            |                   |          | 91-48-47        |             |         | 21.0       |                     | -87.1             | 1489.7      | →     | 1167     |                |
| 15   | "                | 2510            |                   |          | 91-49-50        |             |         | 10.0       | -90.2               | -90.0 ✓           | 1486.8      | 0     | 1166     |                |
| 16   | "                | 2510            |                   |          | 268-10-50       |             |         | 10.0       | -89.7               |                   |             | 0     |          |                |
| 17   | S                | 2200            |                   |          | 89-57-30        |             |         | 10.0       | +8.4                | +8.3 ✓            | 1495.1      |       |          |                |
| 18   | "                | 2200            |                   |          | 270-02-52       |             |         | 10.0       | +8.2                |                   |             |       |          |                |
| 19   | "                | 1960            |                   |          | 90-10-55        |             |         | 4.0        |                     | -9.6              | 1485.5      | -     | 1165     |                |
| 20   | "                | 1320            |                   |          | 90-22-10        |             |         | 4.0        |                     | -12.6             | 1482.6      | -     | 1164     | Creek bottom   |

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## STADIA SURVEY NOTES

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AREA N. Tukoto Lake STATE or PROVINCE Alaska PAGE No. 55  
 LINE No.(s) 47X PARTY No. 1184 DATE 3 Day 2 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station            | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|--------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                    |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1495.1      |       |                    |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |
| 3    | S                | 880             |                   |          | 90-35-13        |             |         | 4.0         | -13.0               |                   | 1482.1      | -     | 1163               |         |
| 4    | "                | 440             |                   |          | 91-14-24        |             |         | 4.0         | -13.5               |                   | 1481.6      | -     | 1162               |         |
| 5    |                  | ~0~             |                   |          |                 |             |         | 5.8         | -5.8                |                   | 1489.3      |       | 1161 X             |         |
| 6    | N                | 440             |                   |          | 88-35-52        |             |         | 4.0         | +6.8                |                   | 1501.9      | -     | 1160               |         |
| 7    | "                | 880             |                   |          | 88-15-51        |             |         | 4.0         | +22.7               |                   | 1518.0      | -     | 1159               |         |
| 8    | "                | 1320            |                   |          | 87-47-02        |             |         | 4.0         | +47.0               |                   | 1542.1      | -     | 1158               |         |
| 9    | "                | 1760            |                   |          | 87-39-36        |             |         | 10.0        | +61.9               | +62.1             | 1557.2      | 0     | 1157               |         |
| 10   | "                | 1760            |                   |          | 272-21-09       |             |         | 10.0        | +62.2               |                   |             | 0     |                    |         |
| 11   | S                | 1320            |                   |          | 94-03-15        |             |         | 14.0        | +107.3              | +107.2            | 1664.4      | Δ     |                    |         |
| 12   | "                | 1320            |                   |          | 265-57-17       |             |         | 14.0        | +109.1              |                   |             | Δ     |                    |         |
| 13   | "                | 880             |                   |          | 94-35-36        |             |         | 14.0        | -84.5               |                   | 1579.9      | -     | 1156               |         |
| 14   | "                | 440             |                   |          | 94-29-20        |             |         | 4.0         | -38.4               |                   | 1626.0      | -     | 1155               |         |
| 15   |                  | ~0~             |                   |          |                 |             |         | 5.8         | -5.8                |                   | 1658.6      | -     | 1154 X             |         |
| 16   | N                | 440             |                   |          | 89-25-51        |             |         | 4.0         | +0.4                |                   | 1664.8      | -     | 1153               |         |
| 17   | "                | 660             |                   |          | 89-25-12        |             |         | 10.0        | -3.3                | -3.3              | 1661.1      | 0     | 1152-2 1152 + 220' |         |
| 18   | "                | 660             |                   |          | 270-35-27       |             |         | 10.0        | -3.2                |                   |             | 0     |                    |         |
| 19   | S                | 2420            |                   |          | 86-3-43         |             |         | 5.0         | -141.5              | -141.8            | 1519.3      | Δ     |                    |         |
| 20   | "                | 2420            |                   |          | 273-28-59       |             |         | 5.0         | -142.0              |                   |             | Δ     |                    |         |

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**STADIA SURVEY NOTES**

AREA Crassico Creek STATE or PROVINCE Alaska PAGE No. 56  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station                  | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|-------------|---------------------|-------------------|------------|-----|--------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |             |                     |                   | INST.      | ROD |                          |         |
| 1    |                  |                 |                   |          |                 |             |         |            |             |                     | 1519.3            |            |     |                          |         |
| 2    |                  |                 |                   |          |                 |             |         |            |             |                     |                   |            |     |                          |         |
| 3    | S                | 2200            |                   |          | 86-32-58        |             |         | 4.0        |             | +128.4              |                   | 1647.7     | -   | 1152                     |         |
| 4    | "                | 1760            |                   |          | 86-35-16        |             |         | 4.0        |             | +100.8              |                   | 1620.1     | -   | 1151                     |         |
| 5    | "                | 1320            |                   |          | 86-36-30        |             |         | 4.0        |             | +74.1               |                   | 1593.4     | -   | 1150                     |         |
| 6    | "                | 880             |                   |          | 86-41-54        |             |         | 4.0        |             | +46.7               |                   | 1566.0     | -   | 1149                     |         |
| 7    | "                | 440             |                   |          | 87-62-59        |             |         | 4.0        |             | +18.7               |                   | 1538.0     | -   | 1148                     |         |
| 8    |                  | ~0~             |                   |          |                 |             |         | 5.8        |             | -5.8                |                   | 1513.6     | -   | 1147 $\nearrow$          |         |
| 9    | N                | 440             |                   |          | 92-24-31        |             |         | 4.0        |             | -22.6               |                   | 1496.8     | -   | 1146                     |         |
| 10   | "                | 880             |                   |          | 91-38-08        |             |         | 4.0        |             | -29.1               |                   | 1490.2     | -   | 1145                     |         |
| 11   | "                | 1320            |                   |          | 91-59-33        |             |         | 4.0        |             | -42.2               |                   | 1477.1     | -   | 1144                     |         |
| 12   | "                | 1760            |                   |          | 91-33-28        |             |         | 4.0        |             | -51.8               |                   | 1467.5     | -   | 1143 SP'S 43 & 42 lie in |         |
| 13   | "                | 2200            |                   |          | 91-21-13        |             |         | 4.0        |             | -56.0               |                   | 1463.3     | -   | 1142 brushy creek        |         |
| 14   | "                | 2640            |                   |          | 90-11-24        |             |         | 5.0        | -13.9       | -13.5               |                   | 1505.8     | 0   | 1141 bed - 42 at         |         |
| 15   | "                | 2640            |                   |          | 269-49-21       |             |         | 5.0        | -13.2       |                     |                   |            | 0   | 1140 bottom of hill      |         |
| 16   | S                | 1760            |                   |          | 90-15-45        |             |         | 5.0        | +13.1       | +12.9               | ✓                 | 1518.7     | Δ   |                          |         |
| 17   | "                | 1760            |                   |          | 269-44-52       |             |         | 5.0        | +12.7       |                     |                   |            | Δ   |                          |         |
| 18   | "                | 1320            |                   |          | 90-11-42        |             |         | 4.0        |             | -8.6                |                   | 1510.2     | -   | 1140                     |         |
| 19   | "                | 880             |                   |          | 90-13-40        |             |         | 4.0        |             | -7.6                |                   | 1511.2     | -   | 1139                     |         |
| 20   | "                | 440             |                   |          | 90-28-25        |             |         | 4.0        |             | -7.6                |                   | 1511.1     | -   | 1138                     |         |

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STADIA SURVEY NOTES

AREA Crassico Creek STATE or PROVINCE Alaska PAGE No. 57  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 3 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |        | ABS. OF S. - S.S. | Station     | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|--------|-------------------|-------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST.  |                   |             |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 1518.7      |        |                   |             |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |        |                   |             |         |
| 3    |                  | ~0~             |                   |          |                 |             |         |            |                     |                   |             |        |                   |             |         |
| 4    | N                | 440             |                   |          | 90-12-01        |             |         |            |                     | -5.8              |             | 1512.9 | 1137              | X           |         |
| 5    | "                | 880             |                   |          | 90-08-14        |             |         |            |                     | -6.2              |             | 1512.5 | 1136              |             |         |
| 6    | "                | 1320            |                   |          | 90-06-25        |             |         |            |                     | -6.1              |             | 1512.6 | 1135              |             |         |
| 7    | "                | 1760            |                   |          | 90-01-12        |             |         |            |                     | -6.5              |             | 1512.2 | 1134              |             |         |
| 8    | "                | 1760            |                   |          | 269-59-07       |             |         |            |                     | -10.6             | -10.6       | 1508.1 | 1133              |             |         |
| 9    | S                | 1540            |                   |          | 89-58-37        |             |         |            |                     | -10.5             |             |        | 0                 |             |         |
| 10   | "                | 1540            |                   |          | 270-01-53       |             |         |            |                     | +4.4              | +4.3        | 1512.4 | A                 |             |         |
| 11   | "                | 1100            |                   |          | 90-05-10        |             |         |            |                     | +4.2              |             |        | A                 |             |         |
| 12   | "                | 660             |                   |          | 90-20-19        |             |         |            |                     | -5.7              |             | 1506.7 | 1132              |             |         |
| 13   | "                | 220             |                   |          | 90-20-19        |             |         |            |                     | -7.9              |             | 1504.5 | 1131              |             |         |
| 14   | "                | 220             |                   |          | 90-39-34        |             |         |            |                     | -6.6              |             | 1505.9 | 1130              |             |         |
| 15   | N                | 220             |                   |          | 90-14-50        |             |         |            |                     | -5.8              |             | 1500.6 | 1129-2            | X 1129+220. |         |
| 16   | "                | 660             |                   |          | 89-54-14        |             |         |            |                     | -4.9              |             | 1507.5 | 1129              |             |         |
| 17   | "                | 1100            |                   |          | 89-50-07        |             |         |            |                     | -2.9              |             | 1509.5 | 1128              |             |         |
| 18   | "                | 1225            |                   |          | 89-54-14        |             |         |            |                     | -1.8              |             | 1510.6 | 1127              |             |         |
| 19   | "                | 1225            |                   |          | 270-06-14       |             |         |            |                     | -2.9              | -2.9        | 1509.5 | 0                 |             |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     | -2.8              |             |        | 0                 | BAS 78198   |         |

14.75  
2.50  
12.25

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**STADIA SURVEY NOTES**

AREA Crassico Creek STATE or PROVINCE Alaska PAGE No. 58  
 LINE No.(s) 41X PARTY No. 1184 DATE 2 Day 3 Mo. 28 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | ΔB.S. OF S. - S.S. | Station | REMARKS              |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|--------------------|---------|----------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                    |         |                      |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 3    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 4    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         | Lines 18-19 p. 57    |
| 5    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1509.5     | 0   |                    |         | BAS. 78198           |
| 6    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1512.5     |     |                    |         | TRUE ELEV.           |
| 7    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | -3.0       |     |                    |         | VERT. MISTIE 1512.52 |
| 8    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 9    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 11   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 12   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 13   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 14   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 15   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |         |                      |

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STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 59  
 LINE No.(s) 47X PARTY No. \_\_\_\_\_ DATE 2 Day 5 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold -42° P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS             |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|---------|---------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair-Read   | Reading | Correction |                     |                   | Center Hair | INST. |         |                     |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |         |                     |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |         |                     |
| 3    | S                | 1194            |                   |          | 90-02-58        |             |         | 10.0       | +11.0               | +10.9             | 1523.4      |       | Δ       | 1126+314' BAS 78198 |
| 4    | "                | 1194            |                   |          | 269-57-49       |             |         | 10.0       | +10.8               |                   |             |       | Δ       |                     |
| 5    | "                | 880             |                   |          | 90-57-46        |             |         | 4.0        |                     | -18.8             | 1504.6      |       | -       | 1126                |
| 6    | "                | 440             |                   |          | 91-57-47        |             |         | 4.0        |                     | -19.1             | 1504.3      |       | -       | 1125                |
| 7    |                  | ~0~             |                   |          |                 |             |         | 5.8        |                     | -5.8              | 1519.6      |       | -       | 1124 X              |
| 8    | N                | 440             |                   |          | 89-59-05        |             |         | 4.0        |                     | -3.9              | 1519.6      |       | -       | 1123                |
| 9    | "                | 880             |                   |          | 90-03-20        |             |         | 4.0        |                     | -4.9              | 1518.5      |       | -       | 1122                |
| 10   | "                | 1320            |                   |          | 90-04-22        |             |         | 5.0        | -6.7                | -6.5              | 1516.9      |       | 0       | 1121                |
| 11   | "                | 1320            |                   |          | 269-56-47       |             |         | 5.0        | -6.2                |                   |             |       | 0       |                     |
| 12   | S                | 2700            |                   |          | 90-27-57        |             |         | 10.0       | +27.9               | +27.7             | 1544.6      |       | Δ       |                     |
| 13   | N                | 2200            |                   |          | 269-32-30       |             |         | 10.0       | +27.6               |                   |             |       | Δ       |                     |
| 14   | "                | 1760            |                   |          | 90-41-39        |             |         | 4.0        |                     | -28.6             | 1516.0      |       | -       | 1120                |
| 15   | "                | 1320            |                   |          | 90-54-45        |             |         | 4.0        |                     | -25.0             | 1519.6      |       | -       | 1119                |
| 16   | "                | 880             |                   |          | 91-15-22        |             |         | 4.0        |                     | -23.3             | 1521.3      |       | -       | 1118                |
| 17   | "                | 440             |                   |          | 91-25-47        |             |         | 4.0        |                     | -15.0             | 1529.6      |       | -       | 1117                |
| 18   |                  | ~0~             |                   |          |                 |             |         | 5.8        |                     | -5.8              | 1538.8      |       | -       | 1116 X              |
| 19   | N                | 440             |                   |          | 89-17-34        |             |         | 4.0        |                     | +1.4              | 1546.0      |       | -       | 1115                |
| 20   | "                | 880             |                   |          | 89-28-36        |             |         | 4.0        |                     | +4.0              | 1548.6      |       | -       | 1114                |

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**STADIA SURVEY NOTES**

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 60  
 LINE No. (s) 47X PARTY No. 1184 DATE 2 Day 5 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold -42. P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS     |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------|-------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |         |             |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1544.6      |       |         |             |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |             |
| 3    | N                | 1320            |                   |          | 89-51-29        |             |         | 4.0         | +7.0                |                   | 1551.6      | -     | 1113    |             |
| 4    | "                | 1766            |                   |          | 89-27-00        |             |         | 4.0         | +12.9               |                   | 1557.5      | -     | 1112    |             |
| 5    | "                | 2200            |                   |          | 89-11-46        |             |         | 5.0         | +26.9               |                   | 1571.5      | -     | 1111    |             |
| 6    | "                | 2420            |                   |          | 88-59-44        |             |         | 5.0         | +37.4               | +37.7             | 1582.3      | 0     |         |             |
| 7    | "                | 2420            |                   |          | 271-01-04       |             |         | 5.0         | +38.0               |                   |             | 0     | 1110-2  | 1110 + 220' |
| 8    | S                | 1650            |                   |          | 89-11-13        |             |         | 16.0        | -13.4               | -13.5             | 1568.8      | Δ     |         |             |
| 9    | "                | 1650            |                   |          | 270-49-13       |             |         | 10.0        | -13.6               |                   |             | Δ     |         |             |
| 10   | "                | 1430            |                   |          | 89-59-32        |             |         | 4.0         |                     | -3.8              | 1565.0      | -     | 1110    |             |
| 11   | "                | 990             |                   |          | 92-05-59        |             |         | 4.0         |                     | -40.2             | 1528.6      | -     | 1109    |             |
| 12   | "                | 550             |                   |          | 94-05-15        |             |         | 4.0         |                     | -43.2             | 1525.6      | -     | 1108    |             |
| 13   | "                | 410~            |                   |          | 99-48-20        |             |         | 4.0         |                     | -22.7             | 1546.1      | -     | 1107    |             |
| 14   | "                | 20~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1563.0      |       | 1106-3  | 1106 + 350' |
| 15   | N                | 336             |                   |          | 91-27-57        |             |         | 4.0         |                     | -12.4             | 1536.4      | -     | 1106    |             |
| 16   | "                | 770             |                   |          | 91-48-47        |             |         | 14.0        | -38.4               | -38.5             | 1530.5      | 0     | 1105    |             |
| 17   | "                | 770             |                   |          | 268-12-07       |             |         | 14.0        | -38.2               |                   |             | 0     |         |             |
| 18   | S                | 1980            |                   |          | 92-25-12        |             |         | 14.0        | +97.6               | +97.4             | 1627.9      | Δ     |         |             |
| 19   | "                | 1980            |                   |          | 249-35-30       |             |         | 14.0        | +97.2               |                   |             | Δ     |         |             |
| 20   | "                | 1540            |                   |          | 94-29-08        |             |         | 4.0         |                     | +124.4            | 1503.5      | -     | 1104    |             |

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### STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE \_\_\_\_\_ PAGE No. 61  
 LINE No. (s) 47 X PARTY No. 1184 DATE 2 Day 5 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold -42. P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |      | Station         | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|-------------|---------------------|-------------------|------------|------|-----------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |             |                     |                   | INST.      | ROD  |                 |         |
| 1    |                  |                 |                   |          |                 |             |         |            |             |                     | 1627.9            |            |      |                 |         |
| 2    |                  |                 |                   |          |                 |             |         |            |             |                     |                   |            |      |                 |         |
| 3    | S                | 1100            |                   |          | 98-01-27        |             |         | 4.0        |             | -157.6              | 1470.3            | -          | 1102 |                 |         |
| 4    | "                | 660             |                   |          | 101-47-41       |             |         | 4.0        |             | -138.9              | 1489.0            | -          | 1102 |                 |         |
| 5    | "                | 220             |                   |          | 101-1-14        |             |         | 18.0       |             | -60.7               | 1567.2            | -          | 1101 |                 |         |
| 6    |                  | -0-             |                   |          |                 |             |         | 5.8        |             | -5.8                | 1622.2            | -          | 1100 | 2 π 1100 + 22π' |         |
| 7    | N                | 220             |                   |          | 90-29-13        |             |         | 4.0        |             | -5.9                | 1622.1            | -          | 1100 |                 |         |
| 8    | "                | 660             |                   |          | 90-22-26        |             |         | 4.0        |             | -8.3                | 1619.6            | -          | 1099 |                 |         |
| 9    | "                | 1100            |                   |          | 90-39-30        |             |         | 4.0        |             | -16.6               | 1614.3            | -          | 1098 |                 |         |
| 10   | "                | 1540            |                   |          | 90-34-10        |             |         | 4.0        |             | -29.3               | 1598.6            | -          | 1099 |                 |         |
| 11   | "                | 1980            |                   |          | 90-68-35        |             |         | 21.0       |             | -25.9               | 1602.0            | -          | 1096 |                 |         |
| 12   | "                | 2420            |                   |          | 90-17-54        |             |         | 16.0       | -22.6       | -22.2               | 1605.7            | 0          | 1095 |                 |         |
| 13   | "                | 2420            |                   |          | 269-43-08       |             |         | 10.0       | -21.9       |                     |                   | 0          |      |                 |         |
| 14   | S                | 550             |                   |          | 92-29-47        |             |         | 10.0       | +34.0       | +33.9               | 1639.6            | Δ          |      |                 |         |
| 15   | "                | 550             |                   |          | 267-30-42       |             |         | 10.0       | +33.9       |                     |                   | Δ          |      |                 |         |
| 16   | "                | 110             |                   |          | 93-30-30        |             |         | 4.0        |             | -10.7               | 1628.9            | -          | 1094 |                 |         |
| 17   |                  | -0-             |                   |          |                 |             |         | 5.8        |             | -5.8                | 1633.8            | -          | 1093 | 3 π 1093 + 350' |         |
| 18   | N                | 330             |                   |          | 90-34-51        |             |         | 4.0        |             | -7.3                | 1632.3            | -          | 1093 |                 |         |
| 19   | "                | 600             |                   |          | 89-23-41        |             |         | 5.0        | +1.3        | +1.4                | 1641.0            | 0          |      |                 |         |
| 20   | "                | 600             |                   |          | 270-26-50       |             |         | 5.0        | +1.4        |                     |                   | 0          |      | BAS 78199       |         |

11.0  
 6.0  
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2.00  
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**STADIA SURVEY NOTES**

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 62  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 9 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold -52.0 P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS                               |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------|---------------------------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |         |                                       |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         | } Carried from p. 61<br>Lines 19 & 20 |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 3    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1641.0      | 0     |         | BAS. 78199                            |
| 4    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1640.19     | 0     |         | TRUE ELEV.                            |
| 5    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1640.81     |       |         | VERT. MISTIE                          |
| 6    |                  |                 |                   |          |                 |             |         |             |                     |                   | +0.2        |       |         |                                       |
| 7    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 8    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 9    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 10   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 11   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 12   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 13   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 14   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 15   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 16   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 17   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 18   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 19   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |                                       |

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**STADIA SURVEY NOTES**

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 63  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 7 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold -42.0 P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | AB.S. OF S. - S.S. | Station                  | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|--------------------|--------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                    |                          |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                    |                          |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                    |                          |         |
|      |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                    |                          |         |
| 3    | S                | 2368            |                   |          | 88-44-01        |             |         | 10.0       | -38.9               | -39.2             | 1601.0      |       |                    |                          |         |
| 4    | "                | 2368            |                   |          | 271-11-47       |             |         | 10.0       | -39.4               |                   |             |       |                    |                          |         |
| 5    | S                | 2200            |                   |          | 88-58-33        |             |         | 4.0        |                     | +26.3             | 1636.3      | -     | 1092               | Rolling Area - Very      |         |
| 6    | "                | 1760            |                   |          | 89-02-44        |             |         | 4.0        |                     | +25.3             | 1626.3      | -     | 1091               | little change in terrain |         |
| 7    | "                | 1320            |                   |          | 89-12-31        |             |         | 4.0        |                     | +14.1             | 1616.1      | -     | 1090               | same                     |         |
| 8    | "                | 880             |                   |          | 89-26-09        |             |         | 4.0        |                     | +4.7              | 1605.7      | -     | 1089               |                          |         |
| 9    | "                | 440             |                   |          | 89-40-58        |             |         | 4.0        |                     | -1.6              | 1599.4      | -     | 1088               |                          |         |
| 10   |                  | -0~             |                   |          |                 |             |         | 5.9        |                     | -5.9              | 1595.1      |       | 1087               | X                        |         |
| 11   | N                | 440             |                   |          | 90-49-46        |             |         | 4.0        |                     | -10.4             | 1590.0      | -     | 1086               |                          |         |
| 12   | "                | 880             |                   |          | 90-56-11        |             |         | 4.0        |                     | -18.4             | 1582.6      | -     | 1085               |                          |         |
| 13   | "                | 1320            |                   |          | 90-57-00        |             |         | 4.0        |                     | -24.7             | 1576.3      | -     | 1084               |                          |         |
| 14   | "                | 1760            |                   |          | 90-59-13        |             |         | 4.0        |                     | -31.8             | 1569.2      | -     | 1083               |                          |         |
| 15   | "                | 2200            |                   |          | 90-43-06        |             |         | 10.0       | -37.0               | -37.3             | 1563.7      | 0     | 1082               |                          |         |
| 16   | "                | 2200            |                   |          | 269-17-47       |             |         | 10.0       | -37.0               |                   |             | 0     |                    |                          |         |
| 17   | S                | 2200            |                   |          | 40-02-23        |             |         | 5.0        | +6.5                | +6.3              | 1590.0      |       |                    |                          |         |
| 18   | "                | 2200            |                   |          | 269-38-12       |             |         | 5.0        | +6.2                |                   |             |       |                    |                          |         |
| 19   | "                | 1760            |                   |          | 90-01-21        |             |         | 5.0        |                     | -5.8              | 1564.2      | -     | 1081               |                          |         |
| 20   |                  | 1320            |                   |          | 89-58-22        |             |         | 5.0        |                     | -4.4              | 1565.6      | -     | 1080               |                          |         |

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## STADIA SURVEY NOTES

AREA IPNAVIK RIVERSTATE or PROVINCE AlaskaPAGE No. 64LINE No.(s) 47XPARTY No. 1184DATE 2 Day 7 Mo. 78

Yr. BOOK No.

SURVEYOR D. JensenRODMAN T. GarciaWEATHER: Cold - cloudy - crappy

P.T.S. No.

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                              | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |        | Station    | REMARKS |
|------|------------------|-----------------|-------------------|----------|------------------------------|-------------|---------|------------|---------------------|-------------------|-------------|--------|------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor              | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST.  |            |         |
| 1    |                  |                 |                   |          |                              |             |         |            |                     |                   | 1570.0      |        |            |         |
| 2    |                  |                 |                   |          |                              |             |         |            |                     |                   |             |        |            |         |
| 3    | S                | 980             |                   |          | 90-00-33                     |             |         |            | 4.0                 | -4.1              | 1565.9      | -      | 1079       |         |
| 4    | "                | 440             |                   |          | 90-07-03                     |             |         |            | 4.0                 | -4.9              | 1565.1      | -      | 1078       |         |
| 5    |                  | ~0~             |                   |          |                              |             |         |            | 5.9                 | -5.9              | 1564.1      |        | 1077 $\pi$ |         |
| 6    | N                | 440             |                   |          | 90-23-13                     |             |         |            | 4.0                 | -7.0              | 1563.0      | -      | 1076       |         |
| 7    | "                | 880             |                   |          | 90-10-06                     |             |         |            | 4.0                 | -6.6              | 1563.4      | -      | 1075       |         |
| 8    | "                | 1320            |                   |          | 90-10-52                     |             |         |            | 4.0                 | -8.2              | 1561.8      | -      | 1074       |         |
| 9    | "                | 1760            |                   |          | 90-10-38                     |             |         |            | 4.0                 | -9.4              | 1560.0      | -      | 1073       |         |
| 10   | "                | 2200            |                   |          | <del>90-02-15</del> 90-01-59 |             |         |            | 10.0                | -11.5             | 1559.1      | 0      | 1072       |         |
| 11   | "                | 2200            |                   |          | 269-59-19                    |             |         |            | 10.0                | -10.4             |             | 0      |            |         |
| 12   | S                | 2200            |                   |          | 89-52-56                     |             |         |            | 5.0                 | +0.5              | +0.2        | 1559.3 | $\Delta$   |         |
| 13   | "                | 2200            |                   |          | 270-07-55                    |             |         |            | 5.0                 | -0.1              |             |        | $\Delta$   |         |
| 14   | "                | 1760            |                   |          | 89-54-57                     |             |         |            | 4.0                 | -1.4              | 1557.9      | -      | 1071       |         |
| 15   | "                | 1320            |                   |          | 89-53-36                     |             |         |            | 4.0                 | -1.5              | 1557.8      | -      | 1070       |         |
| 16   | "                | 880             |                   |          | 90-00-25                     |             |         |            | 4.0                 | -4.1              | 1555.2      | -      | 1069       |         |
| 17   | "                | 440             |                   |          | 90-10-14                     |             |         |            | 4.0                 | -5.3              | 1554.0      | -      | 1068       |         |
| 18   | "                | ~0~             |                   |          |                              |             |         |            | 5.9                 | -5.9              | 1553.4      |        | 1067 $\pi$ |         |
| 19   | N                | 440             |                   |          | 90-22-53                     |             |         |            | 4.0                 | -6.9              | 1552.9      | -      | 1066       |         |
| 20   | "                | 880             |                   |          | 90-12-12                     |             |         |            | 4.0                 | -7.1              | 1552.2      | -      | 1065       |         |

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**STADIA SURVEY NOTES**

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 65  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 7 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold - cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |              | A.B.S. OF S. - S.S.   | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|--------------|-----------------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD          |                       |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1559.3     |              |                       |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |              |                       |         |         |
| 3    | N                | 1320            |                   |          | 90-13-14        |             |         | 4.0         |             | -9.1                |                   | 1550.2     | -            | 1064                  |         |         |
| 4    | "                | 1760            |                   |          | 90-6-59         |             |         | 10.0        |             | -11.0               |                   | 1548.3     | -            | 1063                  |         |         |
| 5    | "                | 2200            |                   |          | 90-02-45        |             |         | 10.0        | -11.8       | -11.4               |                   | 1547.9     | 0            | 1062                  |         |         |
| 6    | "                | 2200            |                   |          | 269-58-29       |             |         | 16.0        | -11.0       |                     |                   |            | 0            |                       |         |         |
| 7    | S                | 1960            |                   |          | 89-47-07        |             |         | 5.6         | -2.3        | -2.5                | 1545.4            |            | Δ            |                       |         |         |
| 8    | "                | 1960            |                   |          | 270-12-25       |             |         | 5.0         | -2.7        |                     |                   |            | Δ            |                       |         |         |
| 9    | "                | 1520            |                   |          | 89-48-49        |             |         | 5.0         |             | -0.1                |                   | 1545.3     | -            | 1061                  |         |         |
| 10   | "                | 1080            |                   |          | 89-47-18        |             |         | 5.0         |             | -1.0                |                   | 1544.4     | -            | 1060                  |         |         |
| 11   | "                | 640             |                   |          | 89-55-41        |             |         | 4.0         |             | -3.2                |                   | 1542.2     | -            | 1059                  |         |         |
| 12   | "                | 200             |                   |          | 90-15-24        |             |         | 4.0         |             | -4.9                |                   | 1540.5     | -            | 1058                  |         |         |
| 13   |                  | ~0~             |                   |          |                 |             |         |             |             | -6.2                |                   | 1539.2     | 0            | 1057 + 241' BAS 78200 |         |         |
| 14   |                  |                 |                   |          |                 |             |         | HI          | 6.2         |                     |                   |            |              |                       |         |         |
| 15   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1539.11    | ✓            | TRUE ELEV. BAS 78200  |         |         |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | +0.1       | VERT. MISTIE |                       |         |         |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |              |                       |         |         |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |              |                       |         |         |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |              |                       |         |         |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |              |                       |         |         |

5.0  
3.0  
2.0

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**STADIA SURVEY NOTES**

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 66  
 LINE No.(s) 47X PARTY No. 1184 DATE 7 Day 11 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station                    | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|----------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                            |         |
| 1    |                  |                 |                   |          |                 |             | TAKE    | OFF         | BAR         | 72.60               |                   | 1539.11    |     |                            |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                            |         |
| 3    | S                | 1562            |                   |          | 89-38-09        |             |         |             | 10.0        | -5.2                | -5.0              | 1534.1     |     | Δ 1057 + 241, 538.93 - 0.2 |         |
| 4    | "                | 1562            |                   |          | 270-23-38       |             |         |             | 10.0        | -4.9                |                   |            |     | Δ 1058                     |         |
| 5    | "                | 1320            |                   |          | 89-35-03        |             |         |             | 5.0         |                     | +4.6              | 1538.7     |     | 1057                       |         |
| 6    | "                | 880             |                   |          | 89-37-14        |             |         |             | 4.0         |                     | +1.8              | 1535.9     |     | 1056                       |         |
| 7    | "                | 440             |                   |          | 89-35-03        |             |         |             | 4.0         |                     | -0.8              | 1533.3     |     | 1055                       |         |
| 8    |                  | -0~             |                   |          |                 |             |         |             | 5.9         |                     | -5.9              | 1528.2     |     | 1054                       |         |
| 9    |                  | 440             |                   |          | 90-56-06        |             |         |             | 4.0         |                     | -11.2             | 1522.9     |     | 1053                       |         |
| 10   |                  | 880             |                   |          | 90-57-07        |             |         |             | 4.0         |                     | -18.6             | 1515.6     |     | 1052                       |         |
| 11   |                  | 1320            |                   |          | 91-00-31        |             |         |             | 4.0         |                     | -27.2             | 1506.9     |     | 1051                       |         |
| 12   |                  | 1760            |                   |          | 90-59-22        |             |         |             | 10.0        | -40.4               | -40.1             | 1494.0     | 0   | 1050                       |         |
| 13   |                  | 1760            |                   |          | 269-01-35       |             |         |             | 10.0        | -39.9               |                   |            | 0   | 1049                       |         |
| 14   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                            |         |
| 15   |                  | 1200            |                   |          | 86-16-15        |             |         |             | 14.0        | -64.0               | -64.0             | 1430.0     |     | Δ 1048                     |         |
| 16   |                  | 1200            |                   |          | 273-43-56       |             |         |             | 14.0        | -64.1               |                   |            |     | Δ 1047                     |         |
| 17   |                  | 770             |                   |          | 86-16-02        |             |         |             | 4.0         |                     | +46.1             | 1476.1     |     | 1049                       |         |
| 18   |                  | 330             |                   |          | 85-44-25        |             |         |             | 4.0         |                     | +20.5             | 1456.5     |     | 1048                       |         |
| 19   |                  | -0~             |                   |          |                 |             |         |             | 5.8         |                     | -5.8              | 1424.2     |     | 1047-1                     |         |
| 20   |                  | 110             |                   |          | 95-2-54         |             |         |             | 4.0         |                     | -14.3             | 1415.7     |     | 1047                       |         |

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### STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 67  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 10 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear 35° P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                              | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |      | Station              | REMARKS |
|------|------------------|-----------------|-------------------|----------|------------------------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|------|----------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor              | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD  |                      |         |
| 1    |                  |                 |                   |          |                              |             |         |             |             |                     | 1430.0            |            |      |                      |         |
| 2    |                  |                 |                   |          |                              |             |         |             |             |                     |                   |            |      |                      |         |
| 3    | N                | 550             |                   |          | 94-19-31                     |             |         | 4.0         |             | -45.6               | 1384.5            | -          | 1046 |                      |         |
| 4    | "                | 990             |                   |          | 94-12-41                     |             |         | 4.0         |             | -76.7               | 1353.3            | -          | 1045 |                      |         |
| 5    | "                | 1430            |                   |          | 93-07-45                     |             |         | 14.0        | -92.1       | -92.0               | 1338.0            | 0          | 1044 |                      |         |
| 6    | "                | 1430            |                   |          | 266-52-34                    |             |         | 14.0        | -91.9       |                     |                   | 0          |      |                      |         |
| 7    |                  |                 |                   |          |                              |             |         |             |             |                     |                   |            |      |                      |         |
| 8    | S                | 1430            |                   |          | 91-09-56                     |             |         | 10.0        | +39.1       | +38.8               | 1376.8            |            |      |                      |         |
| 9    | "                | 1430            |                   |          | 268-51-19                    |             |         | 10.0        | +38.6       |                     |                   |            |      |                      |         |
| 10   | "                | 990             |                   |          | 92-32-30                     |             |         | 4.0         |             | -47.9               | 1328.9            | -          | 1043 |                      |         |
| 11   | "                | 660             |                   |          | 93-09-21                     |             |         | 14.0        |             | -50.3               | 1326.5            | -          | 1042 | -1 Low point         |         |
| 12   | "                | 550             |                   |          | 93-42-35                     |             |         | 5.0         |             | -40.6               | 1336.2            | -          | 1042 |                      |         |
| 13   | "                | 110             |                   |          | 93-55-12                     |             |         | 4.0         |             | -11.5               | 1366.3            | -          | 1041 |                      |         |
| 14   |                  | ~0~             |                   |          |                              |             |         | 5.9         |             | -5.9                | 1370.9            | -          | 1040 | -3 $\pi$ 1040 + 330' |         |
| 15   | N                | 330             |                   |          | 88-15-44                     |             |         | 4.0         |             | +6.0                | 1382.8            | -          | 1040 |                      |         |
| 16   | "                | 770             |                   |          | 88-00-43                     |             |         | 4.0         |             | +22.7               | 1399.5            | -          | 1039 |                      |         |
| 17   | "                | 1210            |                   |          | 89-59-38                     |             |         | 4.0         |             | +38.4               | 1415.2            | -          | 1038 |                      |         |
| 18   | "                | 1430            |                   |          | <del>87-48-38</del> 87-49-36 |             |         | 14.0        | +40.2       | +40.3               | 1417.1            | 0          | 1037 | -2                   |         |
| 19   | "                | 1430            |                   |          | 292-12-07 272-10-52          |             |         | 14.0        | +40.4       |                     |                   | 0          |      |                      |         |
| 20   |                  |                 |                   |          |                              |             |         |             |             |                     |                   |            |      |                      |         |

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**STADIA SURVEY NOTES**

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 68  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 10 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear -35.0 P.T.S. No. \_\_\_\_\_

1/2 12.8  
3.0

1/2 10.7  
6.0

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station         | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-----------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                 |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1417.1     |     |                 |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                 |         |
| 3    | S                | 1980            | 1960              |          | 91-15-23        | 91-14-27    | 10.0    |             | +52.4       | +52.3               | 1469.4            |            | Δ   | 1037-2 1037+226 |         |
| 4    | "                | 1980            | 1960              |          | 268-45-55       | 268-46-02   | 10.0    |             | +52.2       |                     |                   |            | Δ   |                 |         |
| 5    | "                | 1760            |                   |          | 91-48-05        |             | 4.0     |             |             | -55.7               | 1414.2            |            | -   | 1037            |         |
| 6    | "                | 1320            |                   |          | 91-59-56        |             | 4.0     |             |             | -50.0               | 1419.4            |            | -   | 1036            |         |
| 7    | "                | 880             |                   |          | 92-32-47        |             | 4.0     |             |             | -43.1               | 1426.3            |            | -   | 1035            |         |
| 8    | "                | 440             |                   |          | 92-35-55        |             | 4.0     |             |             | -23.9               | 1445.5            |            | -   | 1034            |         |
| 9    |                  | ~0~             |                   |          |                 |             | 5.9     |             |             | -5.9                | 1463.5            |            |     | 1033 π          |         |
| 10   | N                | 440             |                   |          | 87-19-41        |             | 4.0     |             |             | +16.5               | 1485.9            |            | -   | 1032            |         |
| 11   | "                | 880             |                   |          | 87-24-08        |             | 4.0     |             |             | +35.9               | 1505.3            |            | -   | 1031            |         |
| 12   | "                | 1320            |                   |          | 87-10-18        |             | 4.0     |             |             | +61.1               | 1530.5            |            | -   | 1030            |         |
| 13   | "                | 1760            |                   |          | 87-09-47        |             | 4.0     |             |             | +83.1               | 1552.5            |            | -   | 1029            |         |
| 14   | "                | 2200            |                   |          | 87-08-48        |             | 5.0     |             | +104.6      | +104.8              | 1574.2            |            | 0   | 1028            |         |
| 15   | "                | 2200            |                   |          | 272-52-00       |             | 5.0     |             | +105.0      |                     |                   |            | 0   |                 |         |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                 |         |
| 17   | S                | 770             |                   |          | 90-11-39        |             | 14.0    |             | +16.6       | +16.5               | 1590.7            |            | Δ   |                 |         |
| 18   | "                | 770             |                   |          | 269-49-18       |             | 14.0    |             | +16.4       |                     |                   |            | Δ   | 1027            |         |
| 19   | "                | 330             |                   |          | 89-41-36        |             | 4.0     |             |             | -2.2                | 1588.5            |            | -   | 1027            |         |
| 20   |                  | ~0~             |                   |          |                 |             | 5.9     |             |             |                     |                   |            |     | 1026 π 1026+110 |         |

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STADIA SURVEY NOTES

AREA IPNAVIK RIVER STATE or PROVINCE Alaska PAGE No. 69  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 10 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station           | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|-------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                   |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1590.9      |       |                   |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |         |
| 3    | N                | 110             |                   |          | 92-49-53        |             |         | 4.0         | -9.4                |                   | 1581.3      | -     | 1020              |         |
| 4    | "                | 550             |                   |          | 92-41-45        |             |         | 4.0         | -29.9               |                   | 1560.8      | -     | 1025              |         |
| 5    | "                | 990             |                   |          | 92-01-35        |             |         | 14.0        | -49.0               | -48.8             | 1541.9      | 0     | 1024              |         |
| 6    | "                | 990             |                   |          | 267-59-37       |             |         | 14.0        | -48.7               |                   |             | 0     |                   |         |
| 7    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |         |
| 8    | S                | 1540            |                   |          | 89-02-26        |             |         | 5.0         | -20.8               | -21.0             | 1520.6      |       |                   |         |
| 9    | "                | 1540            |                   |          | 270-58-20       |             |         | 6.0         | -21.1               |                   |             |       |                   |         |
| 10   | "                | 1100            |                   |          | 89-25-25        |             |         | 4.0         |                     | +7.1              | 1527.7      | -     | 1023              |         |
| 11   | "                | 660             |                   |          | 89-45-33        |             |         | 4.0         |                     | -1.2              | 1519.4      | -     | 1022              |         |
| 12   | "                | 220             |                   |          | 98-24-52        |             |         | 4.0         |                     | -5.6              | 1515.0      | -     | 1021              |         |
| 13   |                  | 20~             |                   |          |                 |             |         | 5.9         |                     | -5.9              | 1514.7      | -     | 1020-2 X 1020+220 |         |
| 14   | N                | 220             |                   |          | 90-48-33        |             |         | 4.0         |                     | -7.0              | 1513.6      | -     | 1020              |         |
| 15   | "                | 660             |                   |          | 90-45-52        |             |         | 4.0         |                     | -12.8             | 1507.8      | -     | 1019              |         |
| 16   | "                | 1100            |                   |          | 90-34-58        |             |         | 4.0         |                     | -15.2             | 1505.4      | -     | 1018              |         |
| 17   | "                | 1533            |                   |          | 90-28-45        |             |         | 10.0        | -22.8               | -22.6             | 1498.0      | 0     | 1017+7 BAS 78201  |         |
| 18   | "                | 1533            |                   |          | 269-32-10       |             |         | 10.0        | -22.4               |                   |             | 0     |                   |         |
| 19   |                  |                 |                   |          |                 |             |         |             |                     |                   | 1497.03     |       | True Elev.        |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   | +1.0        |       | ver mistie        |         |

X  
12.9  
3.0  
9.9

X  
10.7  
3.0  
7.7

X  
12.56  
5.00  
7.56  
15.10

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**STADIA SURVEY NOTES**

AREA Iula Creek STATE or PROVINCE Alaska PAGE No. 70  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 11 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Calm -20° P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |           |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|---------|
|      |                  |                 | Level             | Inclined  | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |         |
| 1    |                  |                 |                   |           |                 |             |         |             |             |                     |                   |            |     |         |         |
| 2    |                  |                 |                   |           |                 |             |         |             |             |                     |                   |            |     |         |         |
| 3    | S                | 1748            |                   | 87-15-23  |                 |             |         |             | 10.0        | -73.7               | -73.8             | 1423.2     |     | Δ       | 1017+7' |
| 4    | "                | 1748            |                   | 272-45-10 |                 |             |         |             | 10.0        | -74.0               |                   |            |     | Δ       |         |
| 5    | "                | 1741            |                   | 87-15-23  |                 |             |         |             | 10.0        | +73.3               |                   | 1496.5     |     | -       | 1017    |
| 6    | "                | 1320            |                   | 87-11-16  |                 |             |         |             | 5.0         | +59.8               |                   | 1483.0     |     | -       | 1016    |
| 7    | "                | 880             |                   | 87-08-32  |                 |             |         |             | 4.0         | +39.9               |                   | 1442.8     |     | -       | 1015    |
| 8    | "                | 440             |                   | 86-55-29  |                 |             |         |             | 4.0         | +19.6               |                   | 1442.8     |     | -       | 1014    |
| 9    |                  | ~0-             |                   |           |                 |             |         |             | 6.0         | -6.0                |                   | 1417.2     |     | -       | 1013 X  |
| 10   | N                | 440             |                   | 91-54-33  |                 |             |         |             | 4.0         | -18.7               |                   | 1404.5     |     | -       | 1012    |
| 11   | "                | 880             |                   | 90-15-24  |                 |             |         |             | 4.0         | -7.9                |                   | 1415.3     |     | -       | 1011    |
| 12   | "                | 1720            |                   | 90-55-40  |                 |             |         |             | 4.0         | -26.4               |                   | 1397.8     |     | -       | 1010    |
| 13   | "                | 1760            |                   | 89-42-18  |                 |             |         |             | 5.0         | +4.1                | +4.3              | 1427.5     |     | 0       | 1009    |
| 14   | "                | 1760            |                   | 270-18-28 |                 |             |         |             | 5.0         | +4.6                |                   |            |     | 0       |         |
| 15   |                  |                 |                   |           |                 |             |         |             |             |                     |                   |            |     |         |         |
| 16   | S                | 1260            |                   | 92-54-55  |                 |             |         |             | 14.0        | +78.1               | +78.0             | 1505.5     |     | Δ       |         |
| 17   | "                | 1260            |                   | 267-05-33 |                 |             |         |             | 14.0        | +77.9               |                   |            |     | Δ       |         |
| 18   | "                | 880             |                   | 93-08-22  |                 |             |         |             | 4.0         | -52.2               |                   | 1453.3     |     | -       | 1008    |
| 19   | "                | 440             |                   | 92-50-50  |                 |             |         |             | 4.0         | -25.9               |                   | 1479.6     |     | -       | 1007    |
| 20   |                  | ~0~             |                   |           |                 |             |         |             | 5.7         | -5.7                |                   | 1499.8     |     | -       | 1006 X  |

11.99  
3.00  
8.99  
17.98

11.8  
3.00  
12.80

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### STADIA SURVEY NOTES

AREA Cola Creek STATE or PROVINCE Alaska PAGE No. 71  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 11 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station          | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                  |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     | 1505.5            |            |     |                  |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                  |         |
| 3    | N                | 440             |                   |          | 89-54-2         |             |         | 4.0         |             | -3.3                |                   | 1502.2     | -   | 1005             |         |
| 4    | "                | 770             |                   |          | 90-01-37        |             |         | 14.0        | -14.4       | -14.4               |                   | 1491.1     | 0   | 1004-1 1004+110' |         |
| 5    | "                | 770             |                   |          | 269-58-51       |             |         | 14.0        | -14.3       |                     |                   |            | 0   |                  |         |
| 6    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                  |         |
| 7    | S                | 2530            |                   |          | 59-52-11        |             |         | 14.0        | +8.2        | +8.1                |                   | 1499.2     |     |                  |         |
| 8    | "                | 2530            |                   |          | 270-08-15       |             |         | 14.0        | +7.9        |                     |                   |            |     |                  |         |
| 9    | "                | 2420            |                   |          | 90-10-58        |             |         | 4.0         |             | -11.7               |                   | 1487.5     | -   | 1004             |         |
| 10   | "                | 1980            |                   |          | 90-31-01        |             |         | 5.0         |             | -22.9               |                   | 1476.3     | -   | 1003             |         |
| 11   | "                | 1540            |                   |          | 90-31-13        |             |         | 10.0        |             | -24.0               |                   | 1475.2     | -   | 1002             |         |
| 12   | "                | 1100            |                   |          | 90-35-30        |             |         | 14.0        |             | -25.4               |                   | 1473.8     | -   | 1001             |         |
| 13   | "                | 660             |                   |          | 90-17-40        |             |         | 10.0        |             | -13.4               |                   | 1485.8     | -   | 1000             |         |
| 14   | "                | 220             |                   |          | 90-10-30        |             |         | 4.0         |             | -4.7                |                   | 1494.5     | -   | 999              |         |
| 15   |                  | 0               |                   |          |                 |             |         | 5.8         |             | -8.8                |                   | 1493.4     | -   | 998-2 K 998+220' |         |
| 16   | N                | 220             |                   |          | 92-03-00        |             |         | 4.0         |             | -11.9               |                   | 1487.3     | -   | 998              |         |
| 17   | "                | 660             |                   |          | 92-06-49        |             |         | 4.0         |             | -28.3               |                   | 1498.9     | -   | 997              |         |
| 18   | "                | 1100            |                   |          | 92-06-30        |             |         | 4.0         |             | -44.5               |                   | 1454.7     | -   | 996              |         |
| 19   | "                | 1540            |                   |          | 91-58-22        |             |         | 4.0         |             | -57.0               |                   | 1442.2     | -   | 995              |         |
| 20   | "                | 1980            |                   |          | 91-34-35        |             |         | 4.0         |             | -61.3               |                   | 1437.9     | -   | 994              |         |

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### STADIA SURVEY NOTES

AREA Cula Creek STATE or PROVINCE Alaska PAGE No. 72  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 11 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS  |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------|----------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |         |          |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1499.2      |       |         |          |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |          |
| 3    | N                | 2420            |                   |          | 91-19-22        |             |         | 4.0         | -59.9               |                   | 1439.3      | -     | 993     |          |
| 4    | "                | 2860            |                   |          | 90-58-46        |             |         | 14.0        | -62.9               | -62.6             | 1436.6      | 0     | 992     |          |
| 5    | "                | 2860            |                   |          | 269-01-50       |             |         | 14.0        | -62.3               |                   |             | 0     |         |          |
| 6    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |          |
| 7    | S                | 1520            |                   |          | 96-08-57        |             |         | 14.0        | +18.6               | +17.8             | 1454.4      |       |         |          |
| 8    | "                | 1520            |                   |          | 269-51-54       |             |         | 14.0        | +17.6               |                   |             |       |         |          |
| 9    | "                | 1100            |                   |          | 90-08-38        |             |         | 10.0        | -12.8               |                   | 1441.6      | -     | 991     |          |
| 10   | "                | 660             |                   |          | 96-05-23        |             |         | 4.0         | -5.0                |                   | 1449.4      | -     | 990     |          |
| 11   | "                | 220             |                   |          | 89-35-28        |             |         | 4.0         | -2.4                |                   | 1453.0      | -     | 989     |          |
| 12   |                  | -0-             |                   |          |                 |             |         | 5.8         | -5.8                |                   | 1448.6      | -     | 988-2   | 988+220' |
| 13   | N                | 220             |                   |          | 92-07-03        |             |         | 4.0         | -12.2               |                   | 1442.2      | -     | 988     |          |
| 14   | "                | 660             |                   |          | 92-16-04        |             |         | 4.0         | -36.1               |                   | 1424.3      | -     | 987     |          |
| 15   | "                | 1100            |                   |          | 92-07-59        |             |         | 14.0        | -54.9               | -54.8             | 1399.6      | 0     |         |          |
| 16   | "                | 1160            |                   |          | 267-52-45       |             |         | 14.0        | -54.7               |                   |             | 0     | 986     |          |
| 17   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |          |
| 18   | S                | 1760            |                   |          | 87-26-64        |             |         | 5.0         | -76.9               | -77.0             | 1322.6      |       |         |          |
| 19   | "                | 1760            |                   |          | 272-46-08       |             |         | 5.0         | -77.0               |                   |             |       |         |          |
| 20   | "                | 1320            |                   |          | 87-27-21        |             |         | 4.0         |                     | +54.6             | 1377.2      | -     | 985     |          |

11.8  
 2.0  
 8.8

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**STADIA SURVEY NOTES**

AREA: Cula Creek STATE or PROVINCE: Alaska PAGE No. 93  
 LINE No.(s) 47X PARTY No. 1184 DATE: 2 Day 12 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station              | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|----------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                      |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     | 1322.6            |             |       |                      |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                      |         |
| 3    | S                | 880             |                   |          | 87-27-14        |             |         | 4.0         | +35.1               |                   | 1357.7      | -     | 984                  |         |
| 4    | "                | 440             |                   |          | 87-38-45        |             |         | 4.0         | +19.1               |                   | 1336.7      | -     | 983                  |         |
| 5    |                  | -0-             |                   |          |                 |             |         | 5.9         | -5.9                |                   | 1316.7      | -     | 982 π                |         |
| 6    | N                | 440             |                   |          | 92-58-50        |             |         | 4.0         | -26.9               |                   | 1295.7      | -     | 981                  |         |
| 7    | "                | 586             |                   |          | 91-51-38        |             |         | 15.0        | -32.9               |                   | 1289.7      | -     | 980 + 330' low point |         |
| 8    | "                | 880             |                   |          | 89-22-06        |             |         | 4.0         | +5.7                |                   | 1328.3      | -     | 980                  |         |
| 9    | "                | 1320            |                   |          | 88-21-15        |             |         | 4.5         | +33.4               |                   | 1356.0      | -     | 979                  |         |
| 10   | "                | 1750            |                   |          | 88-02-03        |             |         | 5.0         | +55.0               | +55.2             | 1377.8      | 0     | 978                  |         |
| 11   | "                | 1750            |                   |          | 271-58-37       |             |         | 5.0         | +55.4               |                   |             | 0     |                      |         |
| 12   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                      |         |
| 13   | S                | 2250            |                   |          | 93-28-32        |             |         | 14.0        | +150.4              | +150.5            | 1528.3      | Δ     |                      |         |
| 14   | "                | 2250            |                   |          | 266-31-20       |             |         | 14.0        | +150.5              |                   |             | Δ     |                      |         |
| 15   | "                | 1760            |                   |          | 93-49-33        |             |         | 4.0         | -121.4              |                   | 1406.9      | -     | 977                  |         |
| 16   | "                | 1320            |                   |          | 94-00-14        |             |         | 4.0         | -96.2               |                   | 1432.1      | -     | 976                  |         |
| 17   | "                | 880             |                   |          | 94-06-09        |             |         | 4.0         | -67.0               |                   | 1461.3      | -     | 975                  |         |
| 18   | "                | 440             |                   |          | 93-54-28        |             |         | 4.0         | -34.0               |                   | 1454.3      | -     | 974                  |         |
| 19   |                  | -0-             |                   |          |                 |             |         | 5.9         | -5.9                |                   | 1522.4      | -     | 973 π                |         |
| 20   | N                | 440             |                   |          | 86-40-17        |             |         | 4.0         | +21.5               |                   | 1506.8      | -     | 972                  |         |

13.5  
8.6  
5.5  
13.25  
5.00  
8.75  
13.25  
2.00

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### STADIA SURVEY NOTES

AREA Cula Creek STATE or PROVINCE Alaska PAGE No. 74  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 12 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jansen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |        | Δ S. OF S. - S.S. | Station   | REMARKS              |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|--------|-------------------|-----------|----------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD    |                   |           |                      |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1528.3     |        |                   |           |                      |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 3    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 4    | N                | 880             |                   |          | 86-15-74        |             |         |             | 4.0         |                     | +53.5             |            | 1581.8 | -                 | 971       |                      |
| 5    | "                | 1320            |                   |          | 86-16-38        |             |         |             | 10.0        | +75.7               | +75.8             |            | 1604.1 | 0                 | 970       |                      |
| 6    | "                | 1320            |                   |          | 273-43-58       |             |         |             | 10.0        | +75.9               |                   |            |        | 0                 |           |                      |
| 7    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 8    | S                | 723             |                   |          | 91-28-53        |             |         |             | 10.0        | +28.7               | +28.8             | 1632.9     |        | Δ                 |           |                      |
| 9    | "                | 723             |                   |          | 268-30-08       |             |         |             | 10.0        | +28.9               |                   |            |        | Δ                 |           |                      |
| 10   | "                | 283             |                   |          | 91-17-55        |             |         |             | 4.0         | -10.4               |                   | 1622.5     |        |                   | 969       |                      |
| 11   |                  | ~02             |                   |          |                 |             |         |             | 6.2         |                     | -6.2              | 1626.7     |        |                   | 968+14' T | BAS 78202            |
| 12   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 13   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 1627.56    |        |                   |           | True Elev, BAS 78202 |
| 14   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | -0.9       |        | Vert. Mistie      |           |                      |
| 15   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |        |                   |           |                      |

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STADIA SURVEY NOTES

AREA Cula Creek STATE or PROVINCE Alaska PAGE No. 75  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 12 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear +12° P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station        | REMARKS  |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|----------------|----------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                |          |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |          |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |          |
| 3    | S                | 1050            |                   |          | 86-49-24        |             |         | 11.0        | -47.2               | -47.2             | 1580.4      |       | Δ              | 968+157' |
| 4    | "                | 1050            |                   |          | 273-10-31       |             |         | 11.0        | -47.2               |                   |             |       | Δ <sub>1</sub> |          |
| 5    | "                | 880             |                   |          | 86-50-16        |             |         | 4.0         |                     | +44.6             | 1624.9      |       | -              | 968      |
| 6    |                  | 0~              |                   |          |                 |             |         | 5.9         |                     | -5.9              | 1574.5      |       | -              | 967 π    |
| 7    | N                | 880             |                   |          | 93-43-00        |             |         | 4.0         |                     | -61.0             | 1574.5      |       | -              | 966      |
| 8    | "                | 1115            |                   |          | 93-15-27        |             |         | 14.0        | -76.4               | -76.4             | 1504.0      |       | 0              | 965-6    |
| 9    | "                | 1115            |                   |          | 266-47-35       |             |         | 14.0        | -76.4               |                   |             |       | 0 <sub>1</sub> |          |
| 10   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |          |
| 11   | S                | 2420            |                   |          | 87-45-50        |             |         | 14.0        | -80.4               | -80.4             | 1423.6      |       | Δ              |          |
| 12   | "                | 2420            |                   |          | 272-14-02       |             |         | 14.0        | -80.0               |                   |             |       | Δ <sub>1</sub> |          |
| 13   | "                | 1760            |                   |          | 87-50-24        |             |         | 4.0         |                     | +62.3             | 1361.3      |       | -              | 965      |
| 14   |                  | 880             |                   |          | 88-11-39        |             |         | 4.0         |                     | +23.7             | 1447.3      |       | -              | 964      |
| 15   |                  | 0~              |                   |          |                 |             |         | 5.8         |                     | -8.8              | 1417.8      |       | -              | 963 π    |
| 16   | N                | 880             |                   |          | 89-24-20        |             |         | 4.0         |                     | +5.1              | 1428.7      |       | -              | 962      |
| 17   | "                | 1760            |                   |          | 88-58-16        |             |         | 4.0         |                     | +27.6             | 1451.2      |       | -              | 961      |
| 18   | "                | 2040            |                   |          | 88-55-12        |             |         | 10.0        | +28.5               | +28.6             | 1452.2      |       | 0              | 960-6    |
| 19   | 0 W              | 2040            |                   |          | 271-05-18       |             |         | 16.6        | +28.7               |                   |             |       | 0 <sub>1</sub> | 960+600' |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |          |

# 14.15  
300

11.2  
I.O.  
10.2  
220.4

Starting shot point 968,  
Spreads will be 880'  
until Punter noticed!

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 76  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 12 Mo. 78 Yr. BOOK No.  
 SURVEYOR D. Jensen RODMAN J. Garcia WEATHER: Clear +12 P.T.S. No.

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station        | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|----------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1452.2      |       |                |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |         |
| 3    | S                | 880             |                   |          | 89-04-20        |             |         | 10.0        | -4.2                | -4.3              | 1447.9      |       | 960-6 960+660' |         |
| 4    | "                | 880             |                   |          | 270-56-13       |             |         | 10.0        | -4.4                |                   |             |       |                |         |
| 5    | "                | 220             |                   |          | 89-23-24        |             |         | 4.0         |                     | -1.7              | 1446.2      |       | 960            |         |
| 6    |                  | ~0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1442.1      |       | 959-6 959+660' |         |
| 7    | N                | 660             |                   |          | 91-04-33        |             |         | 4.0         |                     | -16.4             | 1431.5      |       | 959            |         |
| 8    | "                | 890             |                   |          | 91-36-20        |             |         | 5.0         | -29.8               | -29.8             | 1418.1      |       | 958-6 958+660' |         |
| 9    | "                | 890             |                   |          | 268-24-15       |             |         | 5.0         | -29.8               |                   |             |       |                |         |
| 10   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |         |
| 11   | S                | 2460            |                   |          | 87-47-16        |             |         | 5.0         | -90.0               | -90.0             | 1328.1      |       |                |         |
| 12   | "                | 2460            |                   |          | 272-12-47       |             |         | 5.0         | -96.0               |                   |             |       |                |         |
| 13   | "                | 1760            |                   |          | 87-59-39        |             |         | 4.0         |                     | 57.6              | 1385.7      |       | 958            |         |
| 14   | "                | 880             |                   |          | 87-59-59        |             |         | 4.0         |                     | +26.7             | 1354.8      |       | 957            |         |
| 15   |                  | ~0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1322.3      |       | 956 956        |         |
| 16   | N                | 880             |                   |          | 90-16-16        |             |         | 4.0         |                     | -8.2              | 1319.9      |       | 955 955        |         |
| 17   | "                | 1770            |                   |          | 89-36-17        |             |         | 5.0         | +7.2                | +7.2              | 1325.3      |       | 954            |         |
| 18   | "                | 1770            |                   |          | 270-23-33       |             |         | 5.0         | +7.1                |                   |             |       | 954            |         |
| 19   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                |         |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 77  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 12 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear + 14° P.T.S. No. \_\_\_\_\_

15.0  
5.1  
9.35  

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12.35  
5.0  
7.0

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Δ B.S. OF S. - S.S. | Station                  | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------------------|--------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                     |                          |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1335.3      |       |                     |                          |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |                          |         |
| 3    | SW               | 1870            |                   |          | 87-29-14        |             |         | 14.0        | -68.0               | -68.1             | 1266.0      |       | Δ                   | 954                      |         |
| 4    | "                | 1870            |                   |          | 272-31-20       |             |         | 14.0        | -68.3               |                   |             |       | Δ                   |                          |         |
| 5    |                  | ~0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1259.2      |       |                     | π                        |         |
| 6    | NE               | 1550            |                   |          | 72-46-21        |             |         | 14.0        | -86.3               | -86.2             | 1181.0      | 0     |                     |                          |         |
| 7    | "                | 1550            |                   |          | 267-20-05       |             |         | 14.0        | -86.1               |                   |             | 0     |                     | BAS 78203                |         |
| 8    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |                          |         |
| 9    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1182.70     |       |                     | TRUE ELEV.               |         |
| 10   |                  |                 |                   |          |                 |             |         |             |                     |                   | -1.7        |       |                     | VERT. MISTIE             |         |
| 11   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |                          |         |
| 12   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     | Stadia shot 3 times      |         |
| 13   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     | on lines 3 & 6. Traverse |         |
| 14   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     | from SP 954. Average     |         |
| 15   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     | of three used due        |         |
| 16   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     | to great amount of       |         |
| 17   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     | refraction %             |         |
| 18   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |                          |         |
| 19   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |                          |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |                          |         |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 78  
 LINE No.(s) 47x PARTY No. 1184 DATE 2 Day 13 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: P. Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | A.B.S. OF S. - S.S. | Station  | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------------------|--|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                     |  |         |
| 1    |                  |                 |                   |          |                 | TAKE        | OFF     | BAS         | 782.03              |                   | 1182.7      | 0     |                     |  |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |  |         |
| 3    | W                | 1820            |                   |          | 92-45-02        |             |         | 5.0         | +92.3               | +92.3             | 1275.0      |       |                     |  |         |
| 4    | "                | 1820            |                   |          | 267-15-17       |             |         | 5.0         | 92.2                |                   |             |       |                     |  |         |
| 5    | E                | 1315            |                   |          | 90-37-20        |             |         | 5.0         |                     | -19.3             | 1255.7      |       | 952                 |  |         |
| 6    | "                | 1175            |                   |          | 88-22-07        |             |         | 5.0         | +28.5               | +28.6             | 1303.6      |       | 0                   |  |         |
| 7    | "                | 1175            |                   |          | 271-38-40       |             |         | 5.0         | +28.7               |                   |             |       | 9                   | 953  |         |
| 8    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |  |         |
| 9    | S                | 1660            |                   |          | 86-26-48        |             |         | 10.0        | -92.9               | -93.0             | 1210.6      |       |                     |  |         |
| 10   | "                | 1660            |                   |          | 273-33-22       |             |         | 10.0        | -93.0               |                   |             |       |                     |  |         |
| 11   |                  | ~0~             |                   |          |                 |             |         | 5.9         |                     | -5.9              | 1204.7      |       | 951-1               | X 951+110'   |         |
| 12   | N                | 116             |                   |          | 96-24-21        |             |         | 4.0         |                     | -16.3             | 1194.3      |       | 951                 |  |         |
| 13   | "                | 760             |                   |          | 95-50-04        |             |         | 14.0        | -91.3               | -91.3             | 1119.3      |       | 0                   | 950-2 950+220'                                     |         |
| 14   | "                | 760             |                   |          | 264-10-14       |             |         | 14.0        | -91.2               |                   |             |       | 0                   |  |         |
| 15   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |  |         |
| 16   | S                | 1930            |                   |          | 86-48-46        |             |         | 5.0         | -102.3              | -102.4            | 1016.9      |       |                     |  |         |
| 17   | "                | 1930            |                   |          | 273-11-32       |             |         | 5.0         | -102.5              |                   |             |       |                     |  |         |
| 18   | "                | 1710            |                   |          | 87-49-05        |             |         | 4.0         |                     | +56.9*            | 1073.8      |       | 950                 | Lowpoint - descent into Colville R. basin 119+110' |         |
| 19   | "                | 1600            |                   |          | 88-59-38        |             |         | 15.0        |                     | +13.1             | 1030.0      |       | 949-7               |  |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                     |  |         |

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**STADIA SURVEY NOTES**

AREA Colville River - STATE or PROVINCE Alaska PAGE No. 79  
 LINE No.(s) 47X PARTY No. \_\_\_\_\_ DATE 2 Day 13 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Partly Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                     | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|---------------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor     | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |         |         |
| 1    |                  |                 |                   |          |                     |             |         |             |                     |                   | 1016.9      |       |         |         |
| 2    |                  |                 |                   |          |                     |             |         |             |                     |                   |             |       |         |         |
| 3    | S                | 880             |                   |          | 88-42-55            |             |         | 14.0        | +5.7                |                   | 1022.6      | -     | 949     |         |
| 4    |                  | ~0~             |                   |          |                     |             |         | 5.8         | -5.8                |                   | 1011.1      | -     | 948     | π       |
| 5    | N                | 880             |                   |          | 89-40-18            |             |         | 4.0         | -0.5                |                   | 1016.4      | -     | 947     |         |
| 6    | "                | 1730            |                   |          | 89-13-39            |             |         | 10.0        | +13.3               | +13.5             | 1030.4      | 0     | 946     |         |
| 7    | "                | 1730            |                   |          | 276-47-03           |             |         | 16.0        | +13.7               |                   |             | 0     |         |         |
| 8    |                  |                 |                   |          |                     |             |         |             |                     |                   |             |       |         |         |
| 9    | S                | 2640            |                   |          | 89-59-02            |             |         | 5.0         | +4.3                | +4.1              | 1034.5      |       | Δ       |         |
| 10   | "                | 2640            |                   |          | 270-01-29           |             |         | 5.0         | +3.9                |                   |             |       | Δ       |         |
| 11   | "                | 1760            |                   |          | 96-03-49            |             |         | 4.0         |                     | -6.0              | 1028.5      | -     | 945     |         |
| 12   | "                | 880             |                   |          | 96-07-40            |             |         | 4.0         |                     | -6.0              | 1028.5      | -     | 944     |         |
| 13   |                  | ~0~             |                   |          | <del>89-02-08</del> |             |         | 5.9         |                     | -5.9              | 1028.6      |       | 943     | T       |
| 14   | N                | 880             |                   |          | <del>89-06-38</del> |             |         | 4.0         |                     | +10.8             | 1045.3      | -     | 942     |         |
| 15   | "                | 1760            |                   |          | <del>86-33-00</del> | 86-34-15    |         | 4.0         |                     | +101.3            | 1135.8      | -     | 941     |         |
| 16   | "                | 2300            |                   |          | 86-39-00            |             |         | 5.0         | +132.7              | +132.9            | 1167.4      | 0     | 940-3   |         |
| 17   | "                | 2300            |                   |          | 273-26-34           |             |         | 5.0         | +133.1              |                   |             | 0     |         |         |
| 18   |                  |                 |                   |          |                     |             |         |             |                     |                   |             |       |         |         |
| 19   | S                | 2640            |                   |          | 90-11-43            |             |         | 14.0        | +23.0               | +22.9             | 1190.3      |       | A       |         |
| 20   | "                | 2640            |                   |          | 269-48-32           |             |         | 14.0        | +22.8               |                   |             |       | A       |         |

13.65  
5.00  
8.65  
30

13.2  
1.0  
13.2

12.5  
1.0  
11.5  
230

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 80  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 13 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cool - P-Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | ▲B.S. OF.S. -S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|-------------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                   |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1190.3      |       |                   |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |         |         |
| 3    | S                | 2310            |                   |          | 90-18-16        |             |         | 4.0         | -14.3               |                   | 1175.8      | -     | 940               |         |         |
| 4    | "                | 1430            |                   |          | 90-29-48        |             |         | 4.0         | -16.4               |                   | 1173.9      | -     | 939               |         |         |
| 5    | "                | 550             |                   |          | 90-25-39        |             |         | 4.0         | -8.1                |                   | 1182.2      | -     | 938               |         |         |
| 6    | "                | -0-             |                   |          |                 |             |         | 5.9         | -5.9                |                   | 1184.4      |       | 937-3             | 938+370 |         |
| 7    | N                | 330             |                   |          | 90-05-22        |             |         | 4.0         | -4.5                |                   | 1185.8      | -     | 937               |         |         |
| 8    | "                | 1210            |                   |          | 89-59-05        |             |         | 4.0         | -3.7                |                   | 1186.6      | -     | 936               |         |         |
| 9    | "                | 2090            |                   |          | 89-32-19        |             |         | 14.0        | +2.8                | +3.0              | 1193.3      | 0     | 935               |         |         |
| 10   | "                | 2090            |                   |          | 270-29-21       |             |         | 14.0        | +3.2                |                   |             | 0     |                   |         |         |
| 11   |                  |                 |                   |          |                 |             |         | 1           |                     |                   |             |       |                   |         |         |
| 12   | S                | 1760            |                   |          | 90-27-23        |             |         | 10.0        | +24.0               | +24.0             | 1217.3      | 0     |                   |         |         |
| 13   | "                | 1760            |                   |          | 269-32-48       |             |         | 10.0        | +23.9               |                   |             | Δ     |                   |         |         |
| 14   | "                | 880             |                   |          | 91-12-12        |             |         | 4.0         | -22.5               |                   | 1194.8      | -     | 934               |         |         |
| 15   |                  | -0-             |                   |          |                 |             |         | 5.9         | -5.9                |                   | 1211.4      |       | 933               | X       |         |
| 16   | N                | 880             |                   |          | 90-19-21        |             |         | 4.0         | -9.0                |                   | 1208.3      | -     | 932               |         |         |
| 17   | "                | 1760            |                   |          | 89-52-57        |             |         | 4.0         | -0.4                |                   | 1216.9      | -     | 931               |         |         |
| 18   | "                | 2640            |                   |          | 89-11-48        |             |         | 5.0         | 32.0                | +32.2             | 1249.5      | 0     | 930               |         |         |
| 19   |                  | 2640            |                   |          | 270-48-41       |             |         | 5.0         | 32.4                |                   |             | 0     |                   |         |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |         |         |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 81  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 13 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| E<br>N<br>L | Bearing<br>of Sight | Stadia<br>Distance | BEAMAN OR VERNIER |          |                    | ROD READING  |         |                 |                | Angular<br>Elev.<br>Diff. | Final<br>Elev.<br>Diff. | ELEVATIONS |                | AB.S.<br>OF.S.<br>-S.S. | Station      | REMARKS |
|-------------|---------------------|--------------------|-------------------|----------|--------------------|--------------|---------|-----------------|----------------|---------------------------|-------------------------|------------|----------------|-------------------------|--------------|---------|
|             |                     |                    | Level             | Inclined | Angle or<br>Factor | Hair<br>Read | Reading | Correc-<br>tion | Center<br>Hair |                           |                         | INST.      | ROD            |                         |              |         |
| 1           |                     |                    |                   |          |                    |              |         |                 |                |                           |                         | 1249.5     |                |                         |              |         |
| 2           |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 3           | S                   | 660                |                   |          | 91-00-23           |              |         | 5.0             | +17.7          | +17.7                     | 1267.2                  |            | Δ              | 930                     | BAS 78204    |         |
| 4           | "                   | 660                |                   |          | 268-53-53          |              |         | 5.0             | +17.7          |                           |                         |            | Δ <sub>1</sub> |                         |              |         |
| 5           |                     |                    |                   |          |                    |              |         |                 |                |                           |                         | 1261.40    |                |                         |              |         |
| 6           |                     | ~0~                |                   |          |                    |              |         | 5.85            |                | -5.85                     |                         | 1259.89    | 0              |                         | TRUE ELEV.   |         |
| 7           |                     |                    |                   |          |                    |              |         |                 |                |                           |                         | +1.8       |                |                         | VERT. MISTIE |         |
| 8           |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 9           |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 10          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 11          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 12          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 13          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 14          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 15          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 16          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 17          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 18          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 19          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |
| 20          |                     |                    |                   |          |                    |              |         |                 |                |                           |                         |            |                |                         |              |         |

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**STADIA SURVEY NOTES**

AREA Calville River STATE or PROVINCE Alaska PAGE No. 82  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 13 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W. Hebander RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS |                         |  |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|---------|-------------------------|--|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |         | AB.S.<br>OF.S.<br>-S.S. |  |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 3    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 4    |                  | ~0~             |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 5    | N                | 240             |                   |          | 90-10-56        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 6    | "                | 1120            |                   |          | 89-57-45        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 7    | "                | 2020            |                   |          | 89-28-46        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 8    | "                | 2850            |                   |          | 89-13-15        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 9    | "                | 2850            |                   |          | 276-47-04       |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 11   | S                | 2090            |                   |          | 90-41-08        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 12   | "                | 2090            |                   |          | 269-11-08*      |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 13   | "                | 1216            |                   |          | 90-24-08        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 14   | "                | 330             |                   |          | 90-08-11        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 15   |                  | ~0~             |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 16   | N                | 550             |                   |          | 91-15-52        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 17   | "                | 1430            |                   |          | 91-32-27        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 18   | "                | 2310            |                   |          | 91-32-20        |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 19   | "                | 2316            |                   |          | 268-27-51       |             |         |             |             |                     |                   |            |     |         |         |                         |  |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |         |         |                         |  |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 83  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 13 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: \_\_\_\_\_ P.T.S. No. \_\_\_\_\_

14.6  
12.6  
2.0

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station                 | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|-------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1260.4      |       |                         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                         |         |
| 3    | S                | 2520            |                   |          | 90-20-16        |             |         | 14.0        | 28.9                | +28.8             | 1289.2      | Δ     | 921                     |         |
| 4    | "                | 2520            |                   |          | 269-39-57       |             |         | 14.0        | 28.7                |                   |             | Δ     |                         |         |
| 5    | "                | 1640            |                   |          | 91-10-39        |             |         | 4.0         |                     | -37.7             | 1251.5      | -     | 920                     |         |
| 6    | "                | 760             |                   |          | 92-57-16        |             |         | 10.0        |                     | -49.2             | 1240.0      | -     | 919 <i>new point</i>    |         |
| 7    |                  | ~0~             |                   |          |                 |             |         | 5.9         |                     | -5.9              | 1283.3      |       | 918-1 <i>7 918+110'</i> |         |
| 8    | N                | 110             |                   |          | 89-10-24        |             |         | 4.0         |                     | -2.4              | 1286.8      | -     | 918                     |         |
| 9    | "                | 990             |                   |          | 89-53-41        |             |         | 18.0        |                     | -16.2             | 1273.0      | -     | 917                     |         |
| 10   | "                | 1870            |                   |          | 89-48-03        |             |         | 4.0         |                     | +4.1              | 1293.3      | -     | 916                     |         |
| 11   | "                | 2760            |                   |          | 89-13-54        |             |         | 5.0         | +32.0               | +32.2             | 1321.4      | 0     | 915                     |         |
| 12   | "                | 2760            |                   |          | 270-46-38       |             |         | 5.0         | +32.4               |                   |             | 0     |                         |         |
| 13   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                         |         |
| 14   | S                | 2530            |                   |          | 91-36-36        |             |         | 14.0        | +85.1               | +85.2             | 1406.6      | Δ     |                         |         |
| 15   | "                | 2530            |                   |          | 268-22-58       |             |         | 14.0        | +85.4               |                   |             | Δ     |                         |         |
| 16   |                  | 1650            |                   |          | 91-41-48        |             |         | 10.0        |                     | -48.8*            | 1357.8      | -     | 914 * -58.8             |         |
| 17   |                  | 770             |                   |          | 91-41-13        |             |         | 5.0         |                     | -27.7             | 1378.9      | -     | 913                     |         |
| 18   |                  | -0-             |                   |          |                 |             |         | 6.0         |                     |                   | 1400.6      | 0     | 912+110' BAS 78205      |         |
| 19   |                  |                 |                   |          |                 |             |         |             |                     |                   | 1398.07     | 0     | TRUE ELEV               |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   | 72.5        |       | VERT. MISTIE            |         |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 84  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 14 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Calm - 20° P.T.S. No. \_\_\_\_\_

$\frac{1}{2} \frac{14.2}{15.0} \frac{L-18}{13.20}$

$\frac{14.83}{15.0} \frac{13.23}{2}$

$\frac{15.0}{13.9} \frac{13.9}{21.8}$

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | AB.S. OF.S. - S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|--------------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                    |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 3    | S                | 770             |                   |          | 86-44-21        |             |         |             |                     |                   |             |       |                    |         |         |
| 4    | "                | 770             |                   |          | 273-15-55       |             |         |             |                     |                   |             |       |                    |         |         |
| 5    | "                | 660             |                   |          | 86-40-02        |             |         |             |                     |                   |             |       |                    |         |         |
| 6    |                  | 0               |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 7    | N                | 220             |                   |          | 95-33-13        |             |         |             |                     |                   |             |       |                    |         |         |
| 8    | "                | 1700            |                   |          | 99-44-04        |             |         |             |                     |                   |             |       |                    |         |         |
| 9    | "                | 1100            |                   |          | 265-16-07       |             |         |             |                     |                   |             |       |                    |         |         |
| 10   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 11   | S                | 2666            |                   |          | 86-24-14        |             |         |             |                     |                   |             |       |                    |         |         |
| 12   | "                | 2666            |                   |          | 273-36-39       |             |         |             |                     |                   |             |       |                    |         |         |
| 13   | "                | 1760            |                   |          | 86-46-40        |             |         |             |                     |                   |             |       |                    |         |         |
| 14   | "                | 880             |                   |          | 86-46-24        |             |         |             |                     |                   |             |       |                    |         |         |
| 15   |                  | 0               |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 16   | N                | 880             |                   |          | 93-60-50        |             |         |             |                     |                   |             |       |                    |         |         |
| 17   | "                | 1760            |                   |          | 92-32-18        |             |         |             |                     |                   |             |       |                    |         |         |
| 18   | "                | 2640            |                   |          | 92-05-4         |             |         |             |                     |                   |             |       |                    |         |         |
| 19   | "                | 2640            |                   |          | 207-54-38       |             |         |             |                     |                   |             |       |                    |         |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 85  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 14 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cool P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | A.B.S. OF S. - S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|---------------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                     |         |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 991.2       |       |                     |         |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |         |         |
| 3    | S                | 2640            |                   |          | 89-05-27        |             |         | 3.0        | -38.9               | -39.0             | 952.2       | Δ     | 904                 |         |         |
| 4    | "                | 2640            |                   |          | 270-54-40       |             |         | 3.0        | -39.0               |                   |             | Δ     |                     |         |         |
| 5    | "                | 1760            |                   |          | 89-13-30        |             |         | 4.0        |                     | +19.8             | 972.0       | -     | 903                 |         |         |
| 6    | "                | 880             |                   |          | 89-08-43        |             |         | 4.0        |                     | +9.1              | 961.3       | -     | 902                 |         |         |
| 7    |                  | -0-             |                   |          |                 |             |         | 5.8        |                     | -5.8              | 946.4       |       | 901                 | π       |         |
| 8    | N                | 880             |                   |          | 90-31-21        |             |         | 9.0        |                     | -12.0             | 940.2       | -     | 900                 |         |         |
| 9    | "                | 1760            |                   |          | 90-38-44        |             |         | 15.0       |                     | -34.8             | 917.4       | -     | 899                 |         |         |
| 10   | "                | 2640            |                   |          | 98-35-25        |             |         | 10.0       | -37.2               | -36.9             | 915.3       | 0     | 898                 |         |         |
| 11   | "                | 2640            |                   |          | 269-25-22       |             |         | 10.0       | -36.6               | ✓                 |             | 0     |                     |         |         |
| 12   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |         |         |
| 13   | S                | 2310            |                   |          | 89-38-10        |             |         | 14.0       | -0.7                | -0.8              | 914.5       | Δ     |                     |         |         |
| 14   | "                | 2310            |                   |          | 270-22-09       |             |         | 14.0       | -0.9                |                   |             | Δ     |                     |         |         |
| 15   | "                | 1430            |                   |          | 89-34-35        |             |         | 4.0        |                     | -3.4              | 911.1       | -     | 897                 |         |         |
| 16   | "                | 550             |                   |          | 89-48-05        |             |         | 4.0        |                     | -2.1              | 912.4       | -     | 896                 |         |         |
| 17   |                  | -0-             |                   |          |                 |             |         | 5.9        |                     | -5.9              | 908.6       |       | 895+330'            | π       |         |
| 18   | N                | 330             |                   |          | 89-54-48        |             |         | 4.0        |                     | -2.5              | 911.0       | -     | 895                 |         |         |
| 19   | "                | 1210            |                   |          | 89-37-50        |             |         | 4.0        |                     | +3.8              | 918.3       | -     | 894                 |         |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |         |         |

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**STADIA SURVEY NOTES**

AREA Colville River STATE or PROVINCE Alaska PAGE No. 86  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 14 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: V-DAY 78 - Cool P.T.S. No. \_\_\_\_\_

X  
 $\frac{10.85}{9.85} = 1.107$   
 1975

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | A.B.S. OF.S. -S.S. | Station      | REMARKS   |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|--------------------|--------------|-----------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |                    |              |           |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 914.5      |     |                    |              |           |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 3    | N                | 1970            |                   |          | 89-10-20        |             |         |             | 1.0         | +27.5               | +27.6             | 942.1      | 0   |                    | BAS 78206    | SP843+133 |
| 4    | "                | 1970            |                   |          | 270-50-16       |             |         |             | 1.0         | +27.8               |                   |            | 0.1 |                    |              |           |
| 5    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 943.9      |     |                    | TRUE ELEV.   | 943.86    |
| 6    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | -1.8       |     |                    | VERT. MISTIE |           |
| 7    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 8    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 9    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 11   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 12   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 13   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 14   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 15   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                    |              |           |

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### STADIA SURVEY NOTES

AREA Colville River STATE or PROVINCE Alaska PAGE No. 87  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 14 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cloudy P.T.S. No. \_\_\_\_\_

136  
 11  
 22.0  
 23

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | ABS. OF S. - S.S. | Station         | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|-------------------|-----------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                   |                 |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |                 |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |                 |         |
| 3    | S                | 2320            |                   |          | 89-29-23        |             |         | 5.0         | -15.7               | -15.7             | 928.20      |       | Δ                 | 893 + 133'      |         |
| 4    | "                | 2320            |                   |          | 270-30-40       |             |         | 5.0         | -15.7               |                   |             |       | Δ                 |                 |         |
| 5    | "                | 2200            |                   |          | 89-38-03        |             |         | 4.0         |                     | +10.0             | 938.2       |       | -                 | 893             |         |
| 6    | "                | 1320            |                   |          | 90-43-25        |             |         | 4.0         |                     | -20.7             | 909.5       |       | -                 | 892             |         |
| 7    | "                | 440             |                   |          | 91-07-53        |             |         | 4.0         |                     | -12.3             | 915.9       |       | -                 | 891             |         |
| 8    |                  | -V~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 922.4       |       | -                 | 890 + 40' X     |         |
| 9    | N                | 440             |                   |          | 90-16-45        |             |         | 4.0         |                     | -6.1              | 922.1       |       | -                 | 890             |         |
| 10   | "                | 1320            |                   |          | 90-04-35        |             |         | 4.0         |                     | -5.8              | 922.4       |       | -                 | 889             |         |
| 11   | "                | 1650            |                   |          | 89-57-40        |             |         | 10.0        | -8.9                | -8.8              | 919.4       | 0     | 0                 | 888-0' 888+550' |         |
| 12   | "                | 1650            |                   |          | 270-02-37       |             |         | 10.0        | -8.7                |                   |             |       | 0                 |                 |         |
| 13   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |                 |         |
| 14   | S                | 1540            |                   |          | 88-55-00        |             |         | 14.0        | -15.1               | -15.2             | 904.2       |       | Δ                 |                 |         |
| 15   | "                | 1540            |                   |          | 271-05-20       |             |         | 14.0        | -15.3               |                   |             |       | Δ                 |                 |         |
| 16   | "                | 990             |                   |          | 88-53-41        |             |         | 14.0        |                     | +5.1              | 909.3       |       | -                 | 888             |         |
| 17   | "                | 110             |                   |          | 88-11-27        |             |         | 4.0         |                     | -0.5              | 903.7       |       | -                 | 887             |         |
| 18   |                  | -0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 898.4       |       | -                 | 886-7 X         |         |
| 19   | N                | 770             |                   |          | 91-08-31        |             |         | 4.0         |                     | -19.3             | 884.9       |       | -                 | 886             |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                   |                 |         |

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STADIA SURVEY NOTES

AREA Lookout River STATE or PROVINCE Alaska PAGE No. 88  
 LINE No.(s) 47X PARTY No. 47X DATE 2 Day 14 Mo. 18 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | AB.S. OF S. - S.S. | Station                 | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|--------------------|-------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                    |                         |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     | 904.2             |             |       |                    |                         |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                    |                         |         |
| 3    | N                | 1650            |                   |          | 90-41-49        |             |         | 10.0       | -30.1               | -29.9             |             | 874.3 | 0                  | 885                     |         |
| 4    | "                | 1650            |                   |          | 269-18-56       |             |         | 10.0       | -29.7               |                   |             |       | 0                  |                         |         |
| 5    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                    |                         |         |
| 6    | S                | 2530            |                   |          | 90-06-00        |             |         | 14.0       | +18.4               | +18.3             | 892.6       |       | Δ                  |                         |         |
| 7    | "                | 2530            |                   |          | 269-54-20       |             |         | 14.0       | +18.1               |                   |             |       | Δ                  |                         |         |
| 8    | "                | 1650            |                   |          | 90-41-08        |             |         | 14.0       |                     | -33.7             |             | 858.9 | -                  | 884                     |         |
| 9    | "                | 770             |                   |          | 92-11-57        |             |         | 4.0        |                     | -33.5             |             | 859.1 | -                  | 883                     |         |
| 10   | "                | 440             |                   |          | 93-57-50        |             |         | 14.0       |                     | -44.4             |             | 848.2 | -                  | 882-5 (Low point River) |         |
| 11   |                  | ~0~             |                   |          |                 |             |         | 5.8        |                     | -5.8              |             | 886.8 |                    | 882-1 K                 |         |
| 12   | N                | 110             |                   |          | 89-26-40        |             |         | 4.0        |                     | -2.9              |             | 889.7 | -                  | 88-2                    |         |
| 13   | "                | 990             |                   |          | 88-01-16        |             |         | 4.0        |                     | +30.2             |             | 862.4 |                    | 881                     |         |
| 14   | "                | 1540            |                   |          | 87-57-51        |             |         | 5.0        | +51.1               | +51.2             |             | 943.8 | 0                  | 880-3 950+350'          |         |
| 15   | "                | 1540            |                   |          | 272-05-25       |             |         | 5.0        | +51.2               |                   |             |       | 0                  |                         |         |
| 16   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                    |                         |         |
| 17   | S                | 2310            |                   |          | 90-47-06        |             |         | 14.0       | +45.6               | +45.5             | 989.3       |       | Δ                  |                         |         |
| 18   | "                | 2310            |                   |          | 269-13-27       |             |         | 14.0       | +45.3               |                   |             |       | Δ                  |                         |         |
| 19   | "                | 1980            |                   |          | 90-48-50        |             |         | 14.0       |                     | -42.1             |             | 947.2 | -                  | 880                     |         |
| 20   |                  | 1100            |                   |          | 90-50-56        |             |         | 4.0        |                     | -20.3             |             | 969.0 | -                  | 879                     |         |

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**STADIA SURVEY NOTES**

AREA Lookout River STATE or PROVINCE Alaska PAGE No. 89  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 15 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR Di Jensen RODMAN T Garcia WEATHER: clear - cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | A.B.S. OF S. - S.S. | Station    | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|---------------------|------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                     |            |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     | 989.3             |             |       |                     |            |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |            |         |
| 3    | S                | 220             |                   |          | 90-36-26        |             |         | 4.0        | -6.3                |                   | 983.0       | -     | 878                 |            |         |
| 4    | "                | ~0~             |                   |          |                 |             |         | 5.9        | -5.9                |                   | 983.4       | -     | 877-6               | X 877+460' |         |
| 5    | N                | 660             |                   |          | 91-53-03        |             |         | 4.0        | -23.7               |                   | 963.6       | -     | 877                 |            |         |
| 6    | "                | 1540            |                   |          | 71-52-32        |             |         | 10.0       | -60.4               |                   | 928.9       | -     | 876                 |            |         |
| 7    | "                | 2450            |                   |          | 91-09-28        |             |         | 14.0       | -63.5               | -63.3             | 926.0       | 0     | 875                 |            |         |
| 8    | "                | 2450            |                   |          | 268-51-12       |             |         | 14.0       | -63.6               |                   |             | 0,    |                     |            |         |
| 9    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |            |         |
| 10   | S                | 2640            |                   |          | 90-03-50        |             |         | 5.0        | +7.9                | +7.7              | 933.7       |       |                     |            |         |
| 11   | "                | 2640            |                   |          | 269-56-43       |             |         | 5.0        | +7.5                |                   |             |       |                     |            |         |
| 12   | "                | 1760            |                   |          | 90-13-52        |             |         | 4.0        |                     | -11.1             | 927.6       | -     | 874                 |            |         |
| 13   | "                | 880             |                   |          | 90-49-41        |             |         | 4.0        |                     | -16.7             | 917.0       | -     | 873                 |            |         |
| 14   |                  | ~0~             |                   |          |                 |             |         | 5.8        |                     | -5.8              | 927.9       | -     | 872                 | X          |         |
| 15   | N                | 880             |                   |          | 89-14-46        |             |         | 4.0        |                     | +7.6              | 941.3       | -     | 871                 |            |         |
| 16   | "                | 1760            |                   |          | 88-53-50        |             |         | 4.0        |                     | +29.9             | 963.6       | -     | 870                 |            |         |
| 17   | "                | 2640            |                   |          | 88-43-27        |             |         | 14.0       | +44.8               | +45.1             | 978.8       | 0     | 869                 |            |         |
| 18   | "                | 2640            |                   |          | 271-17-20       |             |         | 14.0       | +45.4               |                   |             | 0,    |                     |            |         |
| 19   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |            |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                     |            |         |

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### STADIA SURVEY NOTES

AREA Lookout River STATE or PROVINCE Alaska PAGE No. 90  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 15 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear - Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                     | ROD READING |          |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|---------------------|-------------|----------|-------------|---------------------|-------------------|-------------|-------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor     | Hair Read   | Reading  | Correc-tion |                     |                   | Center Hair | INST. |         |         |
| 1    |                  |                 |                   |          |                     |             |          |             |                     |                   | 978.8       |       |         |         |
| 2    |                  |                 |                   |          |                     |             |          |             |                     |                   |             |       |         |         |
| 3    | S                | 2640            |                   |          | <del>91-43-45</del> |             | 91-41-27 | 10.0        | +87.9               | +87.0             | 1066.4      | Δ     | 869     |         |
| 4    | "                | 2640            |                   |          | 268-19-12           |             |          | 10.0        | +87.4               |                   |             | Δ     |         |         |
| 5    | "                | 1760            |                   |          | 92-06-15            |             |          | 4.0         |                     | -65.6             | 1000.8      | -     | 868     |         |
| 6    | "                | 880             |                   |          | 92-18-38            |             |          | 4.0         |                     | -39.5             | 1026.9      | -     | 867     |         |
| 7    |                  | ~0~             |                   |          |                     |             |          | 5.9         |                     | -5.9              | 1060.5      |       | 866 X   |         |
| 8    | N                | 880             |                   |          | 87-28-39            |             |          | 4.0         |                     | +34.7             | 1101.1      | -     | 865     |         |
| 9    | "                | 1760            |                   |          | 87-18-05            |             |          | 4.0         |                     | +78.9             | 1145.3      | -     | 864     |         |
| 10   | "                | 2640            |                   |          | 86-42-48            |             |          | 5.0         | +146.4              | +146.4            | 1212.8      | ⊙     | 863     |         |
| 11   | "                | 2640            |                   |          | 273-17-15           |             |          | 5.0         | +146.4              |                   |             | ⊙     |         |         |
| 12   |                  |                 |                   |          |                     |             |          |             |                     |                   |             |       |         |         |
| 13   | S                | 550             |                   |          | 92-42-20            |             |          | 14.0        | +40.0               | +40.0             | 1252.8      | Δ     |         |         |
| 14   | "                | 550             |                   |          | 267-17-38           |             |          | 14.0        | +40.0               |                   |             | Δ     |         |         |
| 15   |                  | ~0~             |                   |          |                     |             |          | 5.8         |                     | -5.8              | 1247.0      |       | 862-3 X |         |
| 16   | N                | 550             |                   |          | 89-03-23            |             |          | 4.0         |                     | +1.4              | 1254.2      | -     | 862     |         |
| 17   | "                | 1210            |                   |          | 89-26-05            |             |          | 5.0         | +6.9                | +7.6              | 1259.8      | ⊙     | 861     |         |
| 18   | "                | 1210            |                   |          | 270-37-23           |             |          | 5.0         | +7.1                |                   |             | ⊙     |         |         |
| 19   |                  |                 |                   |          |                     |             |          |             |                     |                   |             |       |         |         |
| 20   |                  |                 |                   |          |                     |             |          |             |                     |                   |             |       |         |         |

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**STADIA SURVEY NOTES**

AREA Lookout River STATE or PROVINCE Alaska PAGE No. 91  
 LINE No.(s) 47x PARTY No. 1184 DATE 2 Day 15 Mo. 78 Yr. BOOK No.  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No.

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                      | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | A.B.S. OF S. - S.S. | Station           | REMARKS |
|------|------------------|-----------------|-------------------|----------|----------------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|---------------------|-------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor      | Hair-Read   | Reading | Correction |                     |                   | Center Hair | INST. |                     |                   |         |
| 1    |                  |                 |                   |          |                      |             |         |            |                     |                   | 1259.8      |       |                     |                   |         |
| 2    |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 3    | S                | 1430            |                   |          | 91-23-11             |             |         | 14.0       | +48.6               | +48.5             | 1308.30     |       | A                   | 861               |         |
| 4    | "                | 1430            |                   |          | <del>268-37-23</del> |             |         | 14.0       | +48.4               |                   |             |       | A                   |                   |         |
| 5    | "                | 550             |                   |          | 91-11-38             |             |         | 4.0        |                     | -15.5             | 1292.8      |       | -                   | 860               |         |
| 6    |                  | 0               |                   |          |                      |             |         | 5.9        |                     | -5.9              | 1302.4      |       |                     | 859-3 π 259+230'  |         |
| 7    | N                | 330             |                   |          | 90-29-17             |             |         | 4.0        |                     | -6.8              | 1301.5      |       | -                   | 859               |         |
| 8    | "                | 1210            |                   |          | 90-15-35             |             |         | 15.0       |                     | -20.5             | 1287.8      |       | -                   | 958               |         |
| 9    |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 10   | W                | 674             |                   |          | 88-59-38             |             |         | 5.0        | +6.8                | +6.9              | 1315.2      | 0     |                     | BAS 782208        |         |
| 11   | "                | 674             |                   |          | 291-01-41            |             |         | 5.0        | +7.1                |                   |             |       | 01                  |                   |         |
| 12   |                  |                 |                   |          |                      |             |         |            |                     |                   | 1315.5      |       |                     | True Elev. 1315.5 |         |
| 13   |                  |                 |                   |          |                      |             |         |            |                     |                   | -6.3        |       | Vert.               | Mistie            |         |
| 14   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 15   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 16   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 17   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 18   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 19   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |
| 20   |                  |                 |                   |          |                      |             |         |            |                     |                   |             |       |                     |                   |         |

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**STADIA SURVEY NOTES**

AREA Lookout River STATE or PROVINCE Alaska PAGE No. 92  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

14.05  
308  
10  
T.O.

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |                | Station        | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|----------------|----------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD            |                |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |                |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |                |         |
| 3    | S                | 1410            |                   |          | 88-25-56        |             |         | 15.0        | -23.6       | -23.6               | 1291.9            |            |                | Δ              |         |
| 4    | "                | 1410            |                   |          | 271-34-00       |             |         | 15.0        | -23.6       |                     |                   |            |                | Δ <sub>1</sub> |         |
| 5    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |                |         |
| 6    | N                | 880             |                   |          | 95-07-11        |             |         | 4.0         |             | -82.5               | 1209.4            | -          | 857            |                |         |
| 7    | "                | 1760            |                   |          | 94-08-40        |             |         | 4.0         |             | -131.2              | 1160.7            | -          | 856            |                |         |
| 8    | "                | 2640            |                   |          | 93-23-52        |             |         | 14.0        | -170.5      | -170.4              | 1121.5            | 0          | 855            |                |         |
| 9    | "                | 2640            |                   |          | 266-36-18       |             |         | 14.0        | -170.3      |                     |                   |            | 0 <sub>1</sub> |                |         |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |                |         |
| 11   | S                | 2640            |                   |          | 89-02-10        |             |         | 14.0        | -30.4       | -30.3               | 1091.2            |            |                | Δ              |         |
| 12   | "                | 2640            |                   |          | 270-59-28       |             |         | 14.8        | -30.1       |                     |                   |            |                | Δ <sub>1</sub> |         |
| 13   | "                | 1760            |                   |          | 89-54-50        |             |         | 4.0         |             | -1.4                | 1089.8            | -          | 854            |                |         |
| 14   | "                | 880             |                   |          | 90-18-48        |             |         | 4.0         |             | -8.8                | 1082.4            | -          | 853            |                |         |
| 15   |                  | ~0~             |                   |          |                 |             |         | 5.8         |             | -5.8                | 1085.4            |            | 852            | π              |         |
| 16   | N                | 880             |                   |          | 90-56-12        |             |         | 4.0         |             | -18.4               | 1072.8            | -          | 851            |                |         |
| 17   | "                | 1320            |                   |          | 91-00-39        |             |         | 10.0        | -33.3       | -33.1               | 1058.1            | 0          | 850-4          |                |         |
| 18   | "                | 1320            |                   |          | 269-00-08       |             |         | 10.0        | -33.0       |                     |                   |            | 0 <sub>1</sub> |                |         |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |                |         |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |                |         |

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STADIA SURVEY NOTES

Alaska

AREA Lookout creek on Awuna River STATE or PROVINCE \_\_\_\_\_ PAGE No. 93  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 15 Mo. 79 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

9.75  
1.00  
1.30

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | AB.S. OF S. - S.S. | Station              | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|--------------------|----------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                    |                      |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1058.1      |       |                    |                      |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |                      |         |
| 3    | S                | 1760            |                   |          | 87-50-32        |             |         | 5.0         | -61.3               | -61.3             | 996.8       | Δ     | 850-               |                      |         |
| 4    | "                | 1760            |                   |          | 272-09-46       |             |         | 5.0         | -61.4               |                   |             | Δ     |                    |                      |         |
| 5    | "                | 1320            |                   |          | 87-50-13        |             |         | 4.0         |                     | +45.8             | 1042.6      | -     | 850                |                      |         |
| 6    | "                | 440             |                   |          | 87-08-14        |             |         | 4.0         |                     | +18.0             | 1014.8      | -     | 849                |                      |         |
| 7    |                  | -0-             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 991.0       |       | 848-4              | π                    |         |
| 8    | N                | 440             |                   |          | 91-54-11        |             |         | 4.0         |                     | -18.6             | 978.2       | -     | 848                |                      |         |
| 9    | "                | 1320            |                   |          | 90-55-43        |             |         | 14.0        | -35.4               | -35.3             | 961.5       | 0     | 847                |                      |         |
| 10   | "                | 1320            |                   |          | 269-04-32       |             |         | 14.0        | -35.3               |                   |             | 0     |                    |                      |         |
| 11   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |                      |         |
| 12   | S                | 1750            |                   |          | 87-18-04        |             |         | 5.0         | -77.4               | -77.6             | 884.0       | Δ     |                    |                      |         |
| 13   | "                | 1750            |                   |          | 272-42-20       |             |         | 5.0         | -77.6               |                   |             | Δ     |                    |                      |         |
| 14   | "                | 880             |                   |          | 89-56-56        |             |         | 4.0         |                     | -3.2              | 880.8       | -     | 846                |                      |         |
| 15   | "                | 440             |                   |          | 92-09-44        |             |         | 20.0        |                     | -36.6             | 847.4       | -     | 845-4              | (low place Awuna R.) |         |
| 16   | I                | -0-             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 878.2       |       | 845                | π                    |         |
| 17   | N                | 880             |                   |          | 89-03-40        |             |         | 4.0         |                     | +10.4             | 894.4       | -     | 844                |                      |         |
| 18   | "                | 1760            |                   |          | 88-32-43        |             |         | 5.0         | +39.7               | +39.8             | 923.0       | 0     | 843                |                      |         |
| 19   | "                | 1760            |                   |          | 271-27-47       |             |         | 5.0         | +39.9               |                   |             | 0     |                    |                      |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |                      |         |

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**STADIA SURVEY NOTES**

AREA Awuna River STATE or PROVINCE Alaska PAGE No. 94  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 16 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen (op) RODMAN T. Garcia WEATHER: Cloudy - Cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | ABS. OF.S. -S.S. | Station           | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|------------------|-------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                  |                   |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             | 923.6 |                  |                   |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 3    | S                | 1850            |                   |          | 91-25-13        |             |         | 14.0        | +59.9               | +59.7             | 983.5       |       | Δ                | 843               |         |
| 4    | "                | 1850            |                   |          | 268-38-15       |             |         | 14.0        | +59.6               |                   |             |       | Δ                |                   |         |
| 5    | "                | 956             |                   |          | 91-13-48        |             |         | 10.0        |                     | -30.5             | 953.0       |       | -                | 842               |         |
| 6    | "                | 79              |                   |          | 91-19-25        |             |         | 9.0         |                     | -5.8              | 977.7       |       | -                | 841               |         |
| 7    |                  | -0-             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 977.7       |       | 0                | 840+801 DAS 78209 |         |
| 8    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 9    |                  |                 |                   |          |                 |             |         |             |                     |                   | 978.1       |       |                  | TRUE ELEV. 978.14 |         |
| 10   |                  |                 |                   |          |                 |             |         |             |                     |                   | -0.4        |       |                  | VERT. MISTIE      |         |
| 11   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 12   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 13   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 14   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 15   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 16   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 17   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 18   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 19   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |
| 20   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                  |                   |         |

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**STADIA SURVEY NOTES**

AREA Awuna River STATE or PROVINCE Alask PAGE No. 95  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 15 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear - Cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |         |
| 3    |                  | ~0~             |                   |          |                 |             |         |             |                     |                   |             |       |         |         |
| 4    | N                | 809             |                   |          | 90-29-42        |             |         |             |                     |                   |             | 978.1 |         |         |
| 5    | "                | 1681            |                   |          | 89-59-50        |             |         |             |                     |                   |             | 983.9 | Δ       |         |
| 6    | "                | 2561            |                   |          | 90-03-45        |             |         |             |                     |                   |             | 973.0 | -       | 840     |
| 7    | "                | 2561            |                   |          | 269-56-40       |             |         |             |                     |                   |             | 979.9 | -       | 839     |
| 8    |                  |                 |                   |          |                 |             |         |             |                     |                   |             | 976.3 | 0       | 838     |
| 9    | S                | 1980            |                   |          | 90-30-58        |             |         |             |                     |                   |             |       | 0       |         |
| 10   | "                | 1980            |                   |          | 269-29-21       |             |         |             |                     |                   |             |       | 0       |         |
| 11   | "                | 1100            |                   |          | 92-42-16        |             |         |             |                     |                   |             |       | Δ       |         |
| 12   | "                | 220             |                   |          | 91-57-32        |             |         |             |                     |                   |             |       | Δ       |         |
| 13   |                  | ~0~             |                   |          |                 |             |         |             |                     |                   |             |       |         |         |
| 14   | N                | 660             |                   |          | 89-08-17        |             |         |             |                     |                   |             |       |         |         |
| 15   | "                | 1540            |                   |          | 89-03-54        |             |         |             |                     |                   |             |       |         |         |
| 16   | "                | 2420            |                   |          | 88-41-21        |             |         |             |                     |                   |             |       |         |         |
| 17   | "                | 2420            |                   |          | 271-18-53       |             |         |             |                     |                   |             |       |         |         |
| 18   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |         |         |
| 19   | S                | 2640            |                   |          | 91-56-10        |             |         |             |                     |                   |             |       |         |         |
| 20   | "                | 2640            |                   |          | 268-04-45       |             |         |             |                     |                   |             |       |         |         |

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**STADIA SURVEY NOTES**

AREA Awuna River STATE or PROVINCE Alaska PAGE No. 96  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 15 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen (DJ) RODMAN T. Garcia WEATHER: Cold - cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | AB.S. OF S. - S.S. | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|--------------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                    |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 1157.2      |       |                    |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 3    | S                | 1760            |                   |          | 92-18-35        |             |         | 4.0         | -74.9               |                   | 1082.3      | -     | 832                |         |         |
| 4    | "                | 880             |                   |          | 93-20-45        |             |         | 4.0         | -56.4               |                   | 1101.8      | -     | 831                |         |         |
| 5    |                  | ~6~             |                   |          |                 |             |         | 5.8         | -5.8                |                   | 1151.4      | +     | 830                | π       |         |
| 6    | N                | 880             |                   |          | 88-03-05        |             |         | 10.0        | +19.9               | +20.0             | 1177.2      | 0     | 829                |         |         |
| 7    | "                | 880             |                   |          | 271-57-8        |             |         | 10.0        | +20.0               |                   |             | 0     |                    |         |         |
| 8    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 9    | S                | 880             |                   |          | 86-57-00        |             |         | 14.0        | -32.8               | -32.9             | 1144.3      | Δ     |                    |         |         |
| 10   | "                | 880             |                   |          | 273-03-27       |             |         | 14.0        | -32.9               |                   |             | Δ     |                    |         |         |
| 11   |                  | ~0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1138.5      | -     | 828                | π       |         |
| 12   | N                | 880             |                   |          | 94-56-47        |             |         | 4.0         | -79.9               |                   | 1064.4      | -     | 827                |         |         |
| 13   | "                | 1760            |                   |          | 93-26-27        |             |         | 14.0        | -119.6              | -119.4            | 1024.7      | 0     | 826                |         |         |
| 14   | "                | 1760            |                   |          | 266-34-16       |             |         | 14.0        | -119.3              |                   |             | 0     |                    |         |         |
| 15   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |       |                    |         |         |
| 16   | S                | 2650            |                   |          | 89-37-28        |             |         | 10.0        | -7.5                | -7.6              | 1017.3      | Δ     |                    |         |         |
| 17   | "                | 2650            |                   |          | 270-23-68       |             |         | 16.0        | -7.8                |                   |             | Δ     |                    |         |         |
| 18   | "                | 1760            |                   |          | 90-13-23        |             |         | 4.0         |                     | -10.9             | 1006.4      | -     | 825                |         |         |
| 19   |                  | 880             |                   |          | 90-58-55        |             |         | 4.0         |                     | -19.1             | 998.2       | -     | 824                |         |         |
| 20   |                  | ~0~             |                   |          |                 |             |         | 5.8         |                     | -5.8              | 1011.5      | -     | 823                | π       |         |

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**STADIA SURVEY NOTES**

AREA Avuna River STATE or PROVINCE Alaska PAGE No. 97  
 LINE No.(s) 478 PARTY No. 1184 DATE 2 Day 17 Mo. 98 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Center Hair | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | AB.S. OF.S. -S.S. | Station       | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|-------------------|---------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |             |                     |                   | INST.      | ROD |                   |               |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     | 1017.3            |            |     |                   |               |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                   |               |         |
| 3    | N                | 880             |                   |          | 91-25-03        |             |         | 10.0        |             | -31.8               |                   | 985.5      | -   | 822               |               |         |
| 4    | "                | 1760            |                   |          | 91-29-21        |             |         | 14.0        |             | -59.7               |                   | 967.6      | -   | 821               |               |         |
| 5    | "                | 2640            |                   |          | 91-10-59        |             |         | 10.0        | -64.5       | -64.2               |                   | 953.1      | 0   | 820               |               |         |
| 6    | "                | 2640            |                   |          | 268-49-40       |             |         | 10.0        | -64.0       |                     |                   |            | 0   |                   |               |         |
| 7    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                   |               |         |
| 8    | S                | 2640            |                   |          | 96-43-22        |             |         | 10.0        | +43.3       | +43.1               |                   | 996.2      |     |                   |               |         |
| 9    | "                | 2640            |                   |          | 269-17-00       |             |         | 10.0        | +42.9       |                     |                   |            |     |                   |               |         |
| 10   | "                | 1760            |                   |          | 91-06-05        |             |         | 4.0         |             | -37.8               |                   | 958.4      | -   | 819               |               |         |
| 11   | "                | 880             |                   |          | 91-28-13        |             |         | 4.0         |             | -26.6               |                   | 969.6      | -   | 818               |               |         |
| 12   |                  | -0-             |                   |          |                 |             |         | 5.1         |             | -5.9                |                   | 990.3      |     | 817               | π             |         |
| 13   | N                | 880             |                   |          | 98-33-00        |             |         | 4.0         |             | +18.3               |                   | 1014.5     | -   | 816               |               |         |
| 14   | "                | 1760            |                   |          | 88-14-12        |             |         | 4.0         |             | +50.2               |                   | 1046.4     | -   | 815               | Rolling hills |         |
| 15   | "                | 2640            |                   |          | 89-35-37        |             |         | 10.0        | +100.8      | +100.9              |                   | 1099.1     | 0   | 814               |               |         |
| 16   | "                | 2640            |                   |          | 272-24-45       |             |         | 10.0        | +101.1      |                     |                   |            | 0   |                   |               |         |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |     |                   |               |         |
| 18   | S                | 2640            |                   |          | 93-34-44        |             |         | 14.0        | +178.8      | +178.5              |                   | 1278.6     |     |                   |               |         |
| 19   | "                | 2640            |                   |          | 266-26-10       |             |         | 14.0        | +178.1      |                     |                   |            |     |                   |               |         |
| 20   | "                | 1760            |                   |          | 94-12-35        |             |         | 4.0         |             | -135.7              |                   | 1139.9     | -   | 813               |               |         |

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**STADIA SURVEY NOTES**

AREA TRI-S. Gladys STATE or PROVINCE Alaska PAGE No. 98  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 17 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR W. Hclander RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station                        | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|--------------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                                |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 1275.6      |       |                                |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 3    | S                | 880             |                   |          | 96-00-45        |             |         | 4.0        | -96.2*              |                   | 1179.4      | -     | 812 * 80.58                    |         |
| 4    |                  | 0~              |                   |          |                 |             |         | 5.9        | -5.9                |                   | 1269.7      |       | 811 K                          |         |
| 5    | N                | 660             |                   |          | 86-32-35        |             |         | 10.0       | +29.8               | +29.8             | 1305.4      | 0     | 810-2 810+220'                 |         |
| 6    | "                | 660             |                   |          | 273-27-40       |             |         | 10.0       | +29.8               |                   |             | 0     |                                |         |
| 7    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 8    | S                | 310             |                   |          | 90-21-01        |             |         | 5.0        | +6.9                | +6.9              | 1312.3      |       |                                |         |
| 9    | "                | 310             |                   |          | 269-38-35       |             |         | 5.0        | +6.9                |                   |             |       |                                |         |
| 10   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 11   |                  | 0~              |                   |          |                 |             | HI      | 6.0        |                     | -6.0              | 1306.3      | 0     | BAS 78211 - Top Station Gladys |         |
| 12   |                  |                 |                   |          |                 |             |         |            |                     |                   | 1304.8      |       | TRUE ELEV.                     |         |
| 13   |                  |                 |                   |          |                 |             |         |            |                     |                   | +1.5        |       | VERT-MISTIE                    |         |
| 14   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 15   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 16   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 17   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 18   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 19   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                                |         |

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### STADIA SURVEY NOTES

AREA TRI STATION Gladys STATE or PROVINCE Alaska PAGE No. 99  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 17 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold - Partly Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                      | ROD-READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|----------------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor      | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |         |         |
| 1    |                  |                 |                   |          |                      |             |         |             |                     |                   |             |       |         |         |
| 2    |                  |                 |                   |          |                      |             |         |             |                     |                   |             |       |         |         |
| 3    | S                | 546             | 1020              |          | <del>87-01-51</del>  |             |         |             |                     |                   |             |       |         |         |
| 4    | "                | 546             | 1020              |          | <del>272-58-31</del> |             |         |             |                     |                   |             |       |         |         |
| 5    | "                | 880             |                   |          | 86-58-56             |             |         |             |                     |                   |             |       |         |         |
| 6    |                  | -0-             |                   |          |                      |             |         |             |                     |                   |             |       |         |         |
| 7    | N                | 880             |                   |          | 93-11-12             |             |         |             |                     |                   |             |       |         |         |
| 8    | "                | 1760            |                   |          | 92-55-41             |             |         |             |                     |                   |             |       |         |         |
| 9    | "                | 1760            |                   |          | 267-04-59            |             |         |             |                     |                   |             |       |         |         |
| 10   |                  |                 |                   |          |                      |             |         |             |                     |                   |             |       |         |         |
| 11   | S                | 1980            |                   |          | 88-05-58             |             |         |             |                     |                   |             |       |         |         |
| 12   | "                | 1980            |                   |          | 271-54-45            |             |         |             |                     |                   |             |       |         |         |
| 13   | "                | 1100            |                   |          | 88-12-54             |             |         |             |                     |                   |             |       |         |         |
| 14   | "                | 220             |                   |          | 98-42-48             |             |         |             |                     |                   |             |       |         |         |
| 15   |                  | -0-             |                   |          |                      |             |         |             |                     |                   |             |       |         |         |
| 16   | N                | 660             |                   |          | 92-39-12             |             |         |             |                     |                   |             |       |         |         |
| 17   | "                | 1540            |                   |          | 92-49-28             |             |         |             |                     |                   |             |       |         |         |
| 18   | "                | 2420            |                   |          | 91-56-39             |             |         |             |                     |                   |             |       |         |         |
| 19   | "                | 2420            |                   |          | 268-03-45            |             |         |             |                     |                   |             |       |         |         |
| 20   |                  |                 |                   |          |                      |             |         |             |                     |                   |             |       |         |         |

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 14.1  
 9.0  
 51.2  
 1020

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**STADIA SURVEY NOTES**

AREA Tri. Sta. Gladys STATE or PROVINCE Alaska PAGE No. 106  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 17 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold - clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |           |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | AB.S. OF.S. -S.S. | Station    | REMARKS |
|------|------------------|-----------------|-------------------|-----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|-------------------|------------|---------|
|      |                  |                 | Level             | Inclined  | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |                   |            |         |
| 1    |                  |                 |                   |           |                 |             |         |             |                     |                   | 1009.6      |       |                   |            |         |
| 2    |                  |                 |                   |           |                 |             |         |             |                     |                   |             |       |                   |            |         |
| 3    | S                | 2530            |                   | 92-40-30  |                 |             |         | 14.0        | +132.1              | +132.2            | ✓ 1141.8    | Δ     | 802               |            |         |
| 4    | "                | 2530            |                   | 267-19-23 |                 |             |         | 19.0        | +132.2              |                   |             | Δ     |                   |            |         |
| 5    | "                | 1050            |                   | 92-40-22  |                 |             |         | 14.0        |                     | -90.9             | 1050.9      | -     | 801               |            |         |
| 6    | "                | 770             |                   | 92-33-17  |                 |             |         | 4.0         |                     | -38.3             | 1103.5      | -     | 800               |            |         |
| 7    |                  | ~0~             |                   |           |                 |             |         | 5.9         |                     | -5.9              | 1135.9      |       | 799-1             | κ 799+1101 |         |
| 8    | N                | 110             |                   | 90-25-08  |                 |             |         | 4.0         |                     | -4.8              | 1137.0      | -     | 799               |            |         |
| 9    | "                | 990             |                   | 90-48-29  |                 |             |         | 10.0        | -24.0               | -23.9             | ✓ 1117.9    | 0     | 798               |            |         |
| 10   | "                | 990             |                   | 269-12-01 |                 |             |         | 10.0        | -23.8               |                   |             | 0     |                   |            |         |
| 11   |                  |                 |                   |           |                 |             |         |             |                     |                   |             |       |                   |            |         |
| 12   | S                | 1760            |                   | 88-44-01  |                 |             |         | 5.0         | -33.9               | -34.1             | ✓ 1083.8    | Δ     |                   |            |         |
| 13   | "                | 1760            |                   | 271-16-38 |                 |             |         | 5.0         | 34.2                |                   |             | Δ     |                   |            |         |
| 14   | "                | 880             |                   | 88-39-50  |                 |             |         | 4.0         |                     | +16.5             | 1100.3      | -     | 797               |            |         |
| 15   |                  | ~0~             |                   |           |                 |             |         | 5.9         |                     | -5.9              | 1077.9      |       | 796               | κ          |         |
| 16   | N                | 880             |                   | 92-06-12  |                 |             |         | 4.0         |                     | -36.3             | 1047.5      | -     | 795               |            |         |
| 17   | "                | 1760            |                   | 91-47-02  |                 |             |         | 10.0        | -64.8               | -64.6             | ✓ 1019.2    | 0     | 794               |            |         |
| 18   | "                | 1760            |                   | 268-13-40 |                 |             |         | 10.0        | -64.4               |                   |             | 0     |                   |            |         |
| 19   |                  |                 |                   |           |                 |             |         |             |                     |                   |             |       |                   |            |         |
| 20   |                  |                 |                   |           |                 |             |         |             |                     |                   |             |       |                   |            |         |

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**STADIA SURVEY NOTES**

AREA Tristation Gladys STATE or PROVINCE Alaska PAGE No. 101  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

12.55  
3.00  
4.55

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                     | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station     | REMARKS |
|------|------------------|-----------------|-------------------|----------|---------------------|-------------|---------|-------------|---------------------|-------------------|-------------|-------|-------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor     | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST. |             |         |
| 1    |                  |                 |                   |          |                     |             |         |             |                     |                   | 1019.2      |       |             |         |
| 2    |                  |                 |                   |          | 96-57-46            |             |         |             |                     |                   |             |       |             |         |
| 3    | S                | 1650            |                   |          | <del>90-38-53</del> |             |         | 15.0        | +42.7               | +42.7             | 1061.9      | Δ     | 794         |         |
| 4    | "                | 1650            |                   |          | 269-02-12           |             |         | 15.0        | +42.7               |                   |             | Δ     |             |         |
| 5    | "                | 770             |                   |          | 90-48-14            |             |         | 4.0         |                     | -14.8             | 1047.1      | -     | 793         |         |
| 6    |                  | 26-             |                   |          |                     |             |         | 5.8         |                     | -5.8              | 1056.1      | -     | 792 + 16' X |         |
| 7    | N                | 110             |                   |          | 91-33-30            |             |         | 4.0         |                     | -7.0              | 1044.9      | -     | 792         |         |
| 8    | "                | 990             |                   |          | 92-21-37            |             |         | 19.0        |                     | -59.8             | 1002.1      | -     | 791         |         |
| 9    | "                | 1290            |                   |          | 91-40-20            |             |         | 14.0        | -68.6               | -68.6             | 993.3       | 0     | 790         |         |
| 10   | "                | 1870            |                   |          | 268-19-36           |             |         | 14.0        | -68.6               |                   |             | 0,    |             |         |
| 11   |                  |                 |                   |          |                     |             |         |             |                     |                   |             |       |             |         |
| 12   | S                | 1760            |                   |          | 92-28-33            |             |         | 10.0        | +86.0               | +85.9             | 1079.2      | Δ     |             |         |
| 13   | "                | 1760            |                   |          | 267-31-47           |             |         | 10.0        | +85.9               |                   |             | Δ     |             |         |
| 14   | "                | 880             |                   |          | 93-05-26            |             |         | 4.0         |                     | -51.4             | 1021.8      | -     | 789         |         |
| 15   |                  | 26-             |                   |          |                     |             |         | 5.9         |                     | -5.9              | 1073.3      | -     | 788 X       |         |
| 16   | N                | 880             |                   |          | 88-17-34            |             |         | 4.0         |                     | +22.2             | 1101.4      | -     | 787         |         |
| 17   | "                | 1760            |                   |          | 88-28-05            |             |         | 18.0        |                     | +31.6             | 1110.8      | -     | 786         |         |
| 18   | "                | 2670            |                   |          | 88-14-12            |             |         | 10.0        | +72.2               | +72.4             | 1151.6      | 0     | 785         |         |
| 19   | "                | 2670            |                   |          | 271-46-28           |             |         | 10.0        | +72.7               |                   |             | 0,    |             |         |
| 20   |                  |                 |                   |          |                     |             |         |             |                     |                   |             |       |             |         |

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**STADIA SURVEY NOTES**

AREA Tri-sta. Gladys - Lookout Ridge STATE or PROVINCE Alaska PAGE No. 102  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | ABS. OF S. - S.S. | Station            | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|-------------------|--------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                   |                    |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 1151.6      |       |                   |                    |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |                    |         |
| 3    | S                | 2700            |                   |          | 92-44-45        |             |         | 14.0       | +119.4              | +119.3            | 1270.9      | Δ     | 785               |                    |         |
| 4    | "                | 2200            |                   |          | 267-15-41       |             |         | 14.0       | +119.1              |                   |             | Δ     |                   |                    |         |
| 5    | "                | 1320            |                   |          | 92-38-35        |             |         | 4.0        |                     | -64.9             | 1206.0      | -     | 784               |                    |         |
| 6    | "                | 440             |                   |          | 92-42-13        |             |         | 4.0        |                     | -24.8             | 1246.1      | -     | 783               |                    |         |
| 7    |                  | -0-             |                   |          |                 |             |         | 5.8        |                     | -5.8              | 1265.1      | -     | 782-4 X           |                    |         |
| 8    | N                | 440             |                   |          | 88-00-30        |             |         | 4.6        |                     | +11.3             | 1282.2      | -     | 782               |                    |         |
| 9    | "                | 1320            |                   |          | 88-06-41        |             |         | 4.0        |                     | +39.5             | 1310.4      | -     | 781               |                    |         |
| 10   | "                | 2220            |                   |          | 88-11-47        |             |         | 14.0       | 55.9                | 56.0              | 1326.9      | 0     | 780               |                    |         |
| 11   | "                | 2220            |                   |          | 271-48-40       |             |         | 14.0       | 56.2                |                   |             | 0     |                   |                    |         |
| 12   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |                    |         |
| 13   | S                | 342             |                   |          | 90-40-06        |             |         | 5.0        | +9.6                | +9.6              | 1336.5      | Δ     |                   |                    |         |
| 14   | "                | 342             |                   |          | 269-13-17       |             |         | 5.0        | +9.6                |                   |             | Δ     |                   |                    |         |
| 15   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |                    |         |
| 16   |                  | -0-             |                   |          |                 |             |         | 5.9        |                     | -5.9              | 1330.6      | 0     |                   | BAS 782 12         |         |
| 17   |                  |                 |                   |          |                 |             |         |            |                     |                   | 1332.1      |       |                   | TRUE ELEV. 1332.06 |         |
| 18   |                  |                 |                   |          |                 |             |         |            |                     |                   | -1.5        |       |                   | VERT. MISTIE       |         |
| 19   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |                    |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |                    |         |

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### STADIA SURVEY NOTES

AREA Tri-sta. Gladys STATE or PROVINCE Alaska PAGE No. 103  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear - cold P.T.S. No. \_\_\_\_\_

13.82  
 9.00  
 4.82  
 4.60

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |        | Station | REMARKS  |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|--------|---------|----------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST.  |         |          |
| 1    |                  |                 |                   |          |                 |             |         | TAKE OFF   | BAS                 | 782.12            |             | 1332.1 | 0       |          |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |        |         |          |
| 3    | S                | 964             |                   |          | 88-10-45        |             |         | 13.0       | -17.6               | -17.7             | 1314.4      |        | Δ       | 779+538' |
| 4    | "                | 964             |                   |          | 271-49-36       |             |         | 13.0       | -17.7               |                   |             |        | Δ       |          |
| 5    | "                | 440             |                   |          | 87-51-00        |             |         | 4.0        |                     | +12.5             |             | 1326.9 | -       | 779      |
| 6    |                  | ~0-             |                   |          |                 |             |         | 5.8        |                     | -5.8              |             | 1308.6 |         | 778-4X   |
| 7    | N                | 440             |                   |          | 93-40-43        |             |         | 4.0        |                     | -32.2             |             | 1282.2 | -       | 778      |
| 8    | "                | 1320            |                   |          | 92-44-43        |             |         | 10.0       | -73.2               | -73.2             |             | 1241.2 | 0       | 777      |
| 9    | "                | 1320            |                   |          | 267-15-38       |             |         | 10.0       | -73.1               |                   |             |        | 0       |          |
| 10   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |        |         |          |
| 11   | S                | 2640            |                   |          | 88-02-14        |             |         | 16.0       | -80.4               | -80.7             | 1160.5      |        | Δ       |          |
| 12   | "                | 2640            |                   |          | 271-58-29       |             |         | 10.0       | -81.8               |                   |             |        | Δ       |          |
| 13   | "                | 1760            |                   |          | 88-37-30        |             |         | 4.0        |                     | +38.2             |             | 1198.7 | -       | 776      |
| 14   | "                | 880             |                   |          | 88-53-27        |             |         | 4.0        |                     | +13.0             |             | 1173.5 | -       | 775      |
| 15   |                  | ~0-             |                   |          |                 |             |         | 5.9        |                     | -5.9              |             | 1154.7 |         | 774 X    |
| 16   | N                | 880             |                   |          | 89-57-19        |             |         | 4.0        |                     | -3.3              |             | 1157.2 | -       | 773      |
| 17   | "                | 1760            |                   |          | 90-00-02        |             |         | 10.0       |                     | -16.0             |             | 1150.5 | -       | 772      |
| 18   | "                | 2640            |                   |          | 90-07-59        |             |         | 14.0       | -20.1               | -19.7             |             | 1140.8 | 0       | 771      |
| 19   | "                | 2640            |                   |          | 269-53-11       |             |         | 14.0       | -19.2               |                   |             |        | 0       | 771      |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |        |         |          |

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### STADIA SURVEY NOTES

AREA Tri-sta. Gladys STATE or PROVINCE Alaska PAGE No. 164  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear-cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                              | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |     | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|------------------------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-----|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor              | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD |         |         |
| 1    |                  |                 |                   |          |                              |             |         |             |             |                     |                   | 1140.8     |     |         |         |
| 2    |                  |                 |                   |          |                              |             |         |             |             |                     |                   |            |     |         |         |
| 3    | S                | 2640            |                   |          | 89-55-20                     |             |         | 14.0        | +10.4       | +10.2               | 1151.0            |            | Δ   | 771     |         |
| 4    | "                | 2640            |                   |          | 270-05-12                    |             |         | 14.0        | +10.0       |                     |                   |            | Δ   |         |         |
| 5    | "                | 1760            |                   |          | 89-39-41                     |             |         | 14.0        |             | -3.6                | 1147.4            |            | -   | 770     |         |
| 6    | "                | 880             |                   |          | 89-40-01                     |             |         | 10.0        |             | -4.9                | 1146.1            |            | -   | 769     |         |
| 7    |                  | -0-             |                   |          |                              |             |         | 6.0         |             | -6.0                | 1145.0            |            | -   | 768     | X       |
| 8    | N                | 880             |                   |          | 92-23-46                     |             |         | 18.0        |             | -54.8               | 1096.2            |            | -   | 767     |         |
| 9    | "                | 1760            |                   |          | 92-32-30                     |             |         | 4.0         |             | -82.0               | 1069.0            |            | -   | 766     |         |
| 10   | "                | 2640            |                   |          | 91-40-38                     |             |         | 10.0        | -91.9       | -91.9               | 1059.1            | 0          | 0   | 765     |         |
| 11   | "                | 2640            |                   |          | 268-13-23                    |             |         | 10.0        | -91.9       |                     |                   |            | 0   |         |         |
| 12   |                  |                 |                   |          |                              |             |         |             |             |                     |                   |            |     |         |         |
| 13   | S                | 2640            |                   |          | <del>89-24-59</del> 89-21-59 |             |         | 18.0        | -106.3      | -106.5              | 952.6             |            | Δ   |         |         |
| 14   | "                | 2640            |                   |          | 272-38-27                    |             |         | 18.0        | -106.6      |                     |                   |            | Δ   |         |         |
| 15   | "                | 1760            |                   |          | 87-25-16                     |             |         | 14.0        |             | +65.2               | 1017.8            |            | -   | 764     |         |
| 16   | "                | 880             |                   |          | 87-25-39                     |             |         | 4.0         |             | +36.5               | 988.1             |            | -   | 763     |         |
| 17   |                  | ~0~             |                   |          |                              |             |         | 5.9         |             | -5.9                | 946.7             |            | m   | 762     | X       |
| 18   | N                | 880             |                   |          | 91-01-25                     |             |         | 4.0         |             | -19.7               | 932.9             |            | -   | 761     |         |
| 19   | "                | 1760            |                   |          | 71-06-52                     |             |         | 4.0         |             | -38.2               | 914.4             |            | -   | 760     |         |
| 20   |                  |                 |                   |          |                              |             |         |             |             |                     |                   |            |     |         |         |

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**STADIA SURVEY NOTES**

AREA Tri. Sta. Gladys STATE or PROVINCE Alaska PAGE No. 105  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear - cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |                | Station | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|----------------|---------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD            |         |         |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 952.6      |                |         |         |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |         |         |
| 3    | N                | 2640            |                   |          | 90-57-38        |             |         |             | 14.0        | -58.3               | -58.3             | 894.3      | 0              | 759     |         |
| 4    | "                | 2640            |                   |          | 269-02-38       |             |         |             | 14.0        | -58.1               |                   |            | 0 <sub>1</sub> |         |         |
| 5    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |         |         |
| 6    | S                | 1760            |                   |          | 89-21-06        |             |         |             | 10.0        | -9.9                | -9.8              | 884.5      | A              |         |         |
| 7    | "                | 1760            |                   |          | 270-38-19       |             |         |             | 10.0        | -9.6                |                   |            | A <sub>1</sub> |         |         |
| 8    | "                | 880             |                   |          | 89-41-50        |             |         |             | 4.0         | +0.7                |                   | 885.2      | -              | 758     |         |
| 9    |                  | ~0~             |                   |          |                 |             |         |             | 5.9         | -5.9                |                   | 878.6      |                | 757     | K       |
| 10   | N                | 880             |                   |          | 89-34-16        |             |         |             | 4.0         | +2.6                |                   | 881.1      | -              | 756     |         |
| 11   | "                | 1760            |                   |          | 89-05-15        |             |         |             | 5.0         | +23.0               | +23.2             | 907.7      | 0              | 755     |         |
| 12   | "                | 1760            |                   |          | 270-55-26       |             |         |             | 5.0         | +23.4               |                   |            | 0 <sub>1</sub> |         |         |
| 13   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |                |         |         |
| 14   | S                | 2640            |                   |          | 89-52-28        |             |         |             | 14.0        | +8.2                | +7.9              | 915.6      | A              |         |         |
| 15   | "                | 2640            |                   |          | 270-08-18       |             |         |             | 14.0        | +7.6                |                   |            | A <sub>1</sub> |         |         |
| 16   | "                | 1760            |                   |          | 89-49-55        |             |         |             | 4.0         | +1.2                |                   | 916.2      | -              | 754     |         |
| 17   |                  | 880             |                   |          | 90-02-00        |             |         |             | 4.0         | -4.5                |                   | 911.1      | -              | 753     |         |
| 18   |                  | ~0~             |                   |          |                 |             |         |             | 5.9         | -5.9                |                   | 909.7      |                | 752     | K       |
| 19   | N                | 880             |                   |          | 89-03-43        |             |         |             | 4.0         | +10.7               |                   | 926.3      | -              | 751     |         |
| 20   |                  | 1760            |                   |          | 88-31-49        |             |         |             | 4.0         | +41.1               |                   | 950.7      | -              | 750     |         |

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**STADIA SURVEY NOTES**

AREA Tri-station Gladys STATE or PROVINCE Alaska PAGE No. 106  
 LINE No.(s) 47x PARTY No. 1184 DATE 2 Day 19 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Clear - cold P.T.S. No. \_\_\_\_\_

13.75  
2.00  
11.75

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |        | Station | REMARKS          |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|---------------------|-------------------|-------------|--------|---------|------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion |                     |                   | Center Hair | INST.  |         |                  |
| 1    |                  |                 |                   |          |                 |             |         |             |                     |                   | 915.6       |        |         |                  |
| 2    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |        |         |                  |
| 3    | N                | 23 50           |                   |          | 89-24-23        |             |         | 10.0        | +55.4               | +55.4             |             | 971.0  | 0       | 749-3 749+330'   |
| 4    | "                | 2350            |                   |          | 271-35-48       |             |         | 10.0        | +55.5               |                   |             |        | 0       |                  |
| 5    |                  |                 |                   |          |                 |             |         |             |                     |                   |             |        |         |                  |
| 6    | S                | 1760            |                   |          | 89-30-02        |             |         | 10.0        | -5.3                | -5.5              | 965.5       |        | Δ       |                  |
| 7    | "                | 1760            |                   |          | 276-30-39       |             |         | 10.0        | -5.7                |                   |             |        | Δ       |                  |
| 8    | "                | 1430            |                   |          | 89-30-21        |             |         | 10.0        |                     | +2.3              |             | 969.8  | -       | 749              |
| 9    | "                | 550             |                   |          | 89-39-41        |             |         | 4.0         |                     | -0.7              |             | 964.8  | -       | 748              |
| 10   |                  | 0               |                   |          |                 |             |         | 5.9         |                     | -5.9              |             | 959.6  | -       | 747-3 T 747+330' |
| 11   | N                | 330             |                   |          | 91-50-53        |             |         | 4.0         |                     | -14.6             |             | 950.9  | -       | 747              |
| 12   | "                | 1430            |                   |          | 90-07-01        |             |         | 4.0         |                     | -6.9              |             | 958.6  | -       | 746              |
| 13   | "                | 2310            |                   |          | 89-25-42        |             |         | 10.0        | +13.0               | +13.2             |             | 978.7  | 0       | 745              |
| 14   | "                | 2310            |                   |          | 270-34-40       |             |         | 10.0        | +13.3               |                   |             |        | 0       |                  |
| 15   |                  |                 |                   |          |                 |             |         |             |                     |                   |             |        |         |                  |
| 16   | S                | 2640            |                   |          | 90-22-04        |             |         | 14.0        | +30.9               | +30.8             | 1009.5      |        | Δ       |                  |
| 17   | "                | 2640            |                   |          | 269-38-15       |             |         | 14.0        | +30.7               |                   |             |        | Δ       |                  |
| 18   | "                | 1760            |                   |          | 90-21-50        |             |         | 4.0         |                     | -15.2             |             | 994.3  | -       | 744              |
| 19   | "                | 880             |                   |          | 90-30-55        |             |         | 4.0         |                     | -11.9             |             | 997.6  | -       | 743              |
| 20   |                  | -0-             |                   |          |                 |             |         | 5.9         |                     | -5.9              |             | 1003.6 |         | 742 x            |

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### STADIA SURVEY NOTES

AREA Tri-sta. Gladys - Lookout Ridge STATE or PROVINCE Alaska PAGE No. 107  
 LINE No.(s) 47 X PARTY No. 1184 DATE 2 Day 19 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station        | REMARKS  |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|----------------|----------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                |          |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 1009.5      |       |                |          |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                |          |
| 3    | N                | 880             |                   |          | 89-40-55        |             |         | 4.0        | +0.9                |                   | 1010.4      | -     | 741            |          |
| 4    | "                | 1760            |                   |          | 88-39-01        |             |         | 4.0        | +39.5               |                   | 1047.0      | -     | 740            |          |
| 5    | "                | 2640            |                   |          | 88-41-48        |             |         | 14.0       | +46.0               | +46.4             | 1055.9      | 0     | 739            |          |
| 6    | "                | 2640            |                   |          | 271-19-01       |             |         | 14.0       | +46.7               |                   |             | 0     |                |          |
| 7    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                |          |
| 8    | S                | 530             |                   |          | 85-09-15        |             |         | 14.0       | -32.5               | -32.5             | 1023.4      |       | Δ              |          |
| 9    | "                | 530             |                   |          | 274-50-40       |             |         | 14.0       | -32.4               |                   |             |       | Δ <sub>1</sub> |          |
| 10   |                  | -0-             |                   |          |                 |             |         | 5.9        | -5.9                |                   | 1017.5      |       | 738-3 X        | 738+230' |
| 11   | N                | 330             |                   |          | 97-25-08        |             |         | 4.0        | -46.6               |                   | 976.8       | -     | 738            |          |
| 12   | "                | 880             |                   |          | 46-49-01        | 96-48-32    |         | 14.0       | -118.3              | -118.3            | 905.1       | 0     | 737-3          |          |
| 13   | "                | 880             |                   |          | 263-12-05       |             |         | 14.0       | -118.2              |                   |             | 0     |                |          |
| 14   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                |          |
| 15   | S                | 2090            |                   |          | 84-12-25        |             |         | 5.0        | -206.0              | -206.2            | 698.9       |       | Δ              |          |
| 16   | "                | 2090            |                   |          | 275-48-16       |             |         | 5.0        | -206.4              |                   |             |       | Δ <sub>1</sub> |          |
| 17   | "                | 1760            |                   |          | 86-05-43        |             |         | 7.0        |                     | 147.5             | 846.4       | -     | 737            |          |
| 18   | "                | 880             |                   |          | 85-03-40        |             |         | 4.0        |                     | +55.4             | 754.3       | -     | 736            |          |
| 19   |                  | -0-             |                   |          |                 |             |         | 5.9        |                     | -5.9              | 693.0       |       | 735            |          |
| 20   | N                | 880             |                   |          | 93-06-38        |             |         | 5.0        |                     | -52.8             | 646.1       | -     | 734            |          |

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### STADIA SURVEY NOTES

AREA Tri. Sta. Gladys - Lookout Ridge STATE or PROVINCE Alaska PAGE No. 108  
 LINE No.(s) 47X PARTY No. N84 DATE 7 Day 19 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cloudy P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | ABS. OF S. - S.S. | Station   | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|-------------------|-----------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                   |           |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   | 698.9       |       |                   |           |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |
| 3    | N                | 1760            |                   |          | 92-05-15        |             |         | 14.0       | -78.1               | -77.9             | 621.0       | 0     | 723               |           |         |
| 4    | "                | 1760            |                   |          | 267-55-25       |             |         | 14.0       | -77.8               |                   |             | 0     |                   |           |         |
| 5    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |
| 6    | S                | 2640            |                   |          | 90-14-30        |             |         | 5.0        | +16.7               | +15.8             | 636.8       | Δ     |                   |           |         |
| 7    | "                | 2640            |                   |          | 269-46-19       |             |         | 5.0        | +15.5               |                   |             | Δ     |                   |           |         |
| 8    | "                | 1760            |                   |          | 91-04-09        |             |         | 10.0       |                     | -42.8             | 594.0       | -     | 732               |           |         |
| 9    | "                | 880             |                   |          | 90-53-30        |             |         | 10.0       |                     | -23.7             | 613.1       | -     | 731               |           |         |
| 10   |                  | ~0~             |                   |          |                 |             |         | 5.9        |                     | -5.9              | 630.9       | -     | 730               | π         |         |
| 11   | N.               | 880             |                   |          | 91-36-39        |             |         | 4.0        |                     | -28.7             | 608.1       | -     | 729               |           |         |
| 12   | E                | 1182            |                   |          | 89-32-04        |             |         | 14.0       | -4.4                | -4.3              | 632.5       | 0     |                   |           |         |
| 13   | "                | 1182            |                   |          | 270-28-30       |             |         | 14.0       | -4.2                |                   |             | 0     |                   | BAS 78274 |         |
| 14   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |
| 15   |                  |                 |                   |          |                 |             |         |            |                     |                   | 629.7       |       |                   |           |         |
| 16   |                  |                 |                   |          |                 |             |         |            |                     |                   | +2.8        | VERT. | TRUE ELEV.        | 627.66    |         |
| 17   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |
| 18   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |
| 19   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                   |           |         |

$\frac{13.91}{8.00} = 1.7375$   
 $\frac{591}{82}$

TI-598B

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**STADIA SURVEY NOTES**

AREA Lookout Ridge - T.S. Gladys STATE or PROVINCE Alaska PAGE No. 109  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 19 Mo. 70 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cloudy P.T.S. No. \_\_\_\_\_

13.4  
3.0  
19.4  
  
11.5  
5.0  
6.6

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |            | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS  |       | Station                   | REMARKS |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|------------|---------------------|-------------------|-------------|-------|---------------------------|---------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correction |                     |                   | Center Hair | INST. |                           |         |
| 1    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                           |         |
| 2    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                           |         |
| 3    | SE.              | 940             |                   |          | 87-22-32        |             |         | 10.0       | -30.3               | -30.4             | 599.3       |       | Δ                         |         |
| 4    | "                | 940             |                   |          | 272-28-14       |             |         | 10.0       | -20.5               |                   |             |       | Δ <sub>1</sub>            |         |
| 5    | E.               | 316             |                   |          | 92-19-10        |             |         | 5.0        |                     | -17.5             | 581.8       |       | 728                       |         |
| 6    | N                | 1320            |                   |          | 93-04-43        |             |         | 5.0        | -75.9               | -75.8             | 523.6       |       | 727                       |         |
| 7    | "                | 1320            |                   |          | 266-55-42       |             |         | 5.0        | -75.7               |                   |             |       | 0 <sub>1</sub>            |         |
| 8    |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                           |         |
| 9    | S                | 2640            |                   |          | 87-38-04        |             |         | 10.0       | -99.0               | -99.2             | 424.3       |       | Δ                         |         |
| 10   | "                | 2640            |                   |          | 272-22-26       |             |         | 10.0       | -99.5               |                   |             |       | Δ <sub>1</sub>            |         |
| 11   | "                | 1760            |                   |          | 87-51-25        |             |         | 4.0        |                     | +61.9             | 486.2       |       | 726                       |         |
| 12   | "                | 880             |                   |          | 87-59-27        |             |         | 4.0        |                     | +26.9             | 451.2       |       | 725                       |         |
| 13   |                  | ~0~             |                   |          |                 |             |         | 5.8        |                     | -5.8              | 418.5       |       | 724 X                     |         |
| 14   | N                | 880             |                   |          | 92-43-05        |             |         | 4.0        |                     | -45.9             | 378.6       |       | 723                       |         |
| 15   | "                | 1650            |                   |          | 93-33-35        |             |         | 4.0        |                     | -116.4            | 309.9       |       | 722 - 1 Low place of Hill |         |
| 16   | "                | 1760            |                   |          | 92-10-26        |             |         | 4.0        |                     | -70.8             | 353.6       |       | 722                       |         |
| 17   | "                | 2650            |                   |          | 89-56-45        |             |         | 14.0       | -11.5               | -11.4             | 412.9       |       | 721                       |         |
| 18   | "                | 2650            |                   |          | 270-03-36       |             |         | 14.0       | -11.2               |                   |             |       | 0 <sub>1</sub>            |         |
| 19   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                           |         |
| 20   |                  |                 |                   |          |                 |             |         |            |                     |                   |             |       |                           |         |

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STADIA SURVEY NOTES

AREA Tri. Sta. Gladys STATE or PROVINCE Alaska PAGE No. 110  
 LINE No.(s) 47X PARTY No. 1184 DATE 2 Day 18 Mo. 78 Yr. BOOK No. \_\_\_\_\_  
 SURVEYOR D. Jensen RODMAN T. Garcia WEATHER: Cold P.T.S. No. \_\_\_\_\_

| LINE | Bearing of Sight | Stadia Distance | BEAMAN OR VERNIER |          |                 | ROD READING |         |             |             | Angular Elev. Diff. | Final Elev. Diff. | ELEVATIONS |       | A.B.S. OF S. - S.S. | Station  | REMARKS                |
|------|------------------|-----------------|-------------------|----------|-----------------|-------------|---------|-------------|-------------|---------------------|-------------------|------------|-------|---------------------|----------|------------------------|
|      |                  |                 | Level             | Inclined | Angle or Factor | Hair Read   | Reading | Correc-tion | Center Hair |                     |                   | INST.      | ROD   |                     |          |                        |
| 1    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            | 412.9 |                     |          |                        |
| 2    |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |       |                     |          |                        |
| 3    | S                | 2640            |                   |          | 93-35-38        |             |         | 14.0        | +179.5      | +179.4              | 592.3             |            |       | Δ                   | 721      |                        |
| 4    | "                | 2640            |                   |          | 266-24-40       |             |         | 14.0        | +179.3      |                     |                   |            |       | Δ                   |          |                        |
| 5    | "                | 1760            |                   |          | 94-20-00        |             |         | 4.0         |             | -137.0              |                   | 455.3      |       | -                   | 720      |                        |
| 6    | "                | 880             |                   |          | 94-32-36        |             |         | 14.0        |             | -76.0               |                   | 516.3      |       | -                   | 719      |                        |
| 7    |                  | 0~              |                   |          |                 |             |         | 5.9         |             | -5.9                |                   | 586.4      |       |                     | 718      | π                      |
| 8    | N                | 880             |                   |          | 89-32-52        |             |         | 10.0        | +27.7       | +27.7               |                   | 620.0      | 0     |                     | 717      |                        |
| 9    | "                | 880             |                   |          | 272-27-45       |             |         | 10.0        | +27.8       |                     |                   |            |       | 0                   |          |                        |
| 10   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |       |                     |          |                        |
| 11   | S                | 1360            |                   |          | 88-49-26        |             |         | 10.0        | -17.9       | -18.1               | 601.9             |            |       | Δ                   |          |                        |
| 12   | "                | 1360            |                   |          | 271-11-24       |             |         | 10.0        | -18.2       |                     |                   |            |       | Δ                   |          |                        |
| 13   | "                | 480             |                   |          | 89-05-36        |             |         | 4.0         |             | +3.6                |                   | 605.5      |       | -                   | 716      |                        |
| 14   | N                | 400             |                   |          | 91-14-32        |             |         | 4.0         |             | -12.7               |                   | 589.2      |       | -                   | 715      |                        |
| 15   |                  | 0~              |                   |          |                 |             |         | 6.0         |             | -6.0                |                   | 595.9      | 0     |                     | 715+400' | End of Line 47X        |
| 16   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |       |                     |          | X setup over est. pipe |
| 17   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |       |                     |          | S.P. 536 Ln. 47        |
| 18   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | 592.1      |       |                     |          | ELEV. of S.P. 536      |
| 19   |                  |                 |                   |          |                 |             |         |             |             |                     |                   | +3.8       |       |                     |          | VERT. MISTIE           |
| 20   |                  |                 |                   |          |                 |             |         |             |             |                     |                   |            |       |                     |          | (570)                  |

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