

STADIA SURVEY NOTES

NPR #4
 AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 1
 LINE No.(s) 94 PARTY No. 1182 DATE 28 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTLE RODMAN T. VAN ALLEN WEATHER: SAME 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. | Station | REMARKS |
|------|------------------------|-----------------|-------------------|-------------------|-----------------|------------------|---------|-------------|-------------|---------------------|-------------------|---------------|-----|----------------|--------------------------------------|---------------------|
| | | | Level | Inclined | Angle or Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | <u>▲</u> | <u>0</u> | <u>-</u> | | | | | | | | | <u>184.29</u> | | | <u>PIN FLAG #12 SAME AS P.F. #24</u> | <u>L-90.</u> |
| 3 | <u>SOUTH</u> | <u>1320</u> | | <u>90-33-14</u> | <u>C</u> | | | | | | | <u>189.2</u> | | | <u>PIN FLAG #8</u> | |
| 4 | " | <u>2620</u> | | <u>90-16-02</u> | <u>C</u> | | | | | | | | | | " | <u>#4</u> |
| 5 | | | | | | | | | | | | | | | | |
| 6 | <u>PIN FLAG #12 TO</u> | | | <u>89-56-40</u> | | <u>89°56'44"</u> | | | | | | | | | | |
| 7 | <u>SP #1</u> | <u>3793.58</u> | | <u>270-03-13</u> | | | | | | | | | | | | |
| 8 | | | <u>Ac.</u> | <u>226°58'50"</u> | | | | | | | | <u>187.56</u> | | <u>○</u> | <u>SP I L-94</u> | |
| 9 | <u>SP #1 TO</u> | | | <u>90-02-49</u> | | <u>90°02'55"</u> | | | | | | | | | | <u>PIPE MARICER</u> |
| 10 | <u>PIN FLAG #12</u> | <u>3793.58</u> | | <u>269-57-06</u> | | <u>51</u> | | | | | | | | | | <u>191.5</u> |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

NOR #4
 AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 2
 LINE No. (s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: clear, sunny, light breeze P.T.S. No. _____
 temp approx. zero

| 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 | SOUTH | | | | | | | | | | 184.19 | | P.N. Flag #12 L-94 | |
| 2 | π @ P.F. #4 | 660 | | 92-07-51 | C | | | 5.5 | | 214.25 | 208.75 | Δ | H1 of 5.5 | |
| 3 | NORTH | 660 | | 89-48-50 | C | | | 5.5 | | | 211 | | L-94, P.F. #16 | |
| 4 | " | 1980 | | 89-46-17 | C | | | 14.3 | | | 208 | | " " #20 | |
| 5 | " | 3300 | | 89-57-55 | C | | | 14.3 | | | 202 | | " " #24 | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | 187.54 | | SP #1 L-94 | |
| 9 | π 0 - | | | | | | | 5.5 | | | | Δ | | |
| 10 | SOUTH | 1320 | | 89-44-23 | C | | | 14.3 | | | 185 | | SP #2 | |
| 11 | " | 2640 | | 90-08-37 | C | | | 14.3 | | | 172 | | 3 | |
| 12 | " | 3960 | | 89-59-48 | C | | | 14.3 | | | 179 | | 4 | |
| 13 | " | 5280 | | 90-03-40 | C | | | 26.1 | | | 162 | | 5 | |
| 14 | " | 6600 | | 90-06-02 | C | | | 22.8 | | | 159 | | 6 | |
| 15 | " | 7920 | | 89-55-36 | C | | | 14.3 | | | 190 | | 7 | |
| 16 | SP 1 to | | | 89-57-57 | | 89°52'04" | | | | | | | | |
| 17 | SP 7 + 825 | 8741.72 | | 270-07-47 | | | | 5.5 | | | | | | |
| 18 | | | Az. | 185°57'58" | | | | | | | 209.09 | | ⊙ 7 + 825 | |
| 19 | SP 7 + 825 to | | | 90-08-54 | | 90°09'00" | | | | | | | Lat. 70°01'06" | |
| 20 | SP 1 | 8741.72 | | 269-50-54 | | | | 5.5 | | | | | 213.4 | |

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STADIA SURVEY NOTES

NPR # 4

AREA IKPIKPIK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 3
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: SAME 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 | | | | | | | | | | | | 209.89 | | 7+825 | | |
| 2 | π | 0 | | | | | | | | | | | Δ | | | |
| 3 | SOUTH | 495 | | 91-28-04 | C | | | | | | | 188 | | 8 | | |
| 4 | " | 1815 | | 91-37-18 | C | | | | | | | 149 | | 9 | | |
| 5 | " | 3135 | | 90-56-48 | C | | | | | | | 149 | | 10 | | |
| 6 | " | 4455 | | 90-39-08 | C | | | | | | | 150 | | 11 | | |
| 7 | " | 5775 | | 90-30-41 | C | | | | | | | 149 | | 12 | | |
| 8 | " | 7095 | | 90-01-14 | C | | | | | | | 198 | | 13 | | |
| 9 | " | 660 | | 92-26-47 | | | | | | | | 172 | | 8+165 | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | SP7+825 to | | | 89-44-54 | | | | | | | | | | | | |
| 12 | SP14 | 841.85 | | 270-14-10 | | | | | | | | | | | | |
| 13 | | | Az | 180-57-43 | | | | | | | | 245.86 | \odot | 14 | Lat. 69° 59' 44" | |
| 14 | SP14 to | | | 90-15-19 | | | | | | | | | | | 250.5 | |
| 15 | SP7+825 | 841.85 | | 269-44-28 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | π | 0 | | | | | | | | | | 251.36 | Δ | | | |
| 18 | SOUTH | 1320 | | 90-34-12 | C | | | | | | | 224 | | 15 | | |
| 19 | " | 2640 | | 90-53-47 | C | | | | | | | 196 | | 16 | | |
| 20 | " | 3960 | | 90-47-20 | C | | | | | | | 183 | | 17 | | |

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STADIA SURVEY NOTES

AREA IKPIKPUK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 4
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN J. VAN ALEN WEATHER: SAME, WINDY 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 | | | | | | | | | | | | 245.86 | | 14 | |
| 2 | SOUTH | 5280 | | 90-23-06 | C | | | | | | | 202 | | 18 | |
| 3 | " | 6600 | | 90-26-53 | C | | | | | | | 173 | | 19 | |
| 4 | " | 7920 | | 90-29-26 | C | | | | | | | 157 | | 20 | |
| 5 | " | 9240 | | 90-27-13 | C | | | | | | | 152 | | 21 | LINE INT |
| 6 | " | 10560 | | 90-24-48 | C | | | | | | | 162 | | 22 | 38-33-23-94 |
| 7 | " | 11880 | | 90-07-55 | C | | | | | | | 212 | | 23 | 38-33-23-94 |
| 8 | | | | | | | | | | | | | | | |
| 9 | SP 14 to | | | 90-04-59 | | 90°05'09" | | | | | | | | | |
| 10 | SP 22 to | 12370 ⁵⁷ | | 269-54-41 | | | | 5.5 | | | | | | | |
| 11 | | | As. | 186°29'40" | | | | | | | | 230 ³⁰ | ⊙ | 23+ | 495407 69°57'43" |
| 12 | SP 22 to | 14950 | | 89-56-33 | | 89°56'30" | | | | | | | | | 235.5 |
| 13 | SP 14 | 12370 ⁵⁷ | | 270-03-32 | | | | 5.5 | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | ∧ | 0 | - | | | | | 5.5 | | | | 235.8 | | | △ |
| 16 | SOUTH | 825 | | 90-59-02 | C | | | 14.3 | | | | 207 | | 24 | |
| 17 | " | 2145 | | 89-47-43 | C | | | 14.3 | | | | 229 | | 25 | |
| 18 | " | 3465 | | SEE | C | | | | | | | | | 26 | |
| 19 | " | 4785 | | PAGE | C | | | | | | | | | 27 | |
| 20 | " | 6105 | | | C | | | | | | | | | 28 | |

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 5
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME 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 | | | | | | | | | | | | | | | 23+495 | |
| 2 | SOUTH | 7425 | | SEE PAGE | | C | | | | | | | | | 29 | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | S P 23+495 TO | | | 89-57-36 | | 89°57'48" | | | | | | | | | | |
| 5 | S P 25+495 2638.81 | | | 270-02-00 | | | | 5.5 | | | | | | | | |
| 6 | | | Az. | 186°30'01" | | | | | | | 232.87 | ⊙ | | 25+495 | | |
| 7 | S P 25+495 | | | 90-02-31 | | 90°02'25" | | | | | | | | | | Lat. 69°57'17" |
| 8 | S P 23+495 2638.81 | | | 269-57-41 | | | | 5.5 | | | | | | | | 237.4 |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | 23+495 | |
| 11 | S P 23+495 TO | | | 89-26-03 | | 89°26'10" | | | | | | | | | | |
| 12 | FRI - STA KATHY 3043.40 | | | 270-33-44 | | | | 5.5 | | | | | | | | |
| 13 | | | Az. | 107°58'43" | | | | | | | 260.89 | ⊙ | | KATHY | Lat 69°57'33" | |
| 14 | FRI STA KATHY TO | | | 90-34-20 | | 90°34'35" | | | | | 266.09 | | | | | 266.0 |
| 15 | S P 23+495 3043.40 | | | 269-25-10 | | | | 5.5 | | MISTIE | -5.41 | LOW | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
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STADIA SURVEY NOTES

NPR #4

AREA IKPIR PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 6
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTE RODMAN T. VAN ALEN WEATHER: SAME - COLD & WINDY 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 | | | | | | | | | | | | | | | | |
| 2 | KATHY TO | | | 90-27-05 | | | 1950 | | | | | 266.9 | | | KATHY | |
| 3 | SP25+495 | 3609.21 | | 269-32-41 | | | | 5.5 | | | | | | | | |
| 4 | | | A2 | 242° 3' 41" | | | | | | | | 237.61 | ⊙ | 25+495 | | |
| 5 | SP25+495 TO | | | 89-33-06 | | | 89° 33' 07" | | | | | | | | | |
| 6 | KATHY | 3609.21 | | 270-26-53 | | | | 5.5 | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | 248 | 237.61 | | 25+495 | |
| 9 | TA | 0 | - | | | | | 5.5 | | | | 243.4 | | Δ | 237.2 | |
| 10 | SOUTH | 825 | | 90-31-59 | C | | | 14.3 | | | | 221 | | | 26 | |
| 11 | " | 2145 | | 91-19-59 | C | | | 14.3 | | | | 179 | | | 27 | |
| 12 | " | 3465 | | 90-54-52 | C | | | 14.3 | | | | 174 | | | 28 | |
| 13 | " | 4785 | | 90-35-16 | C | | | 14.3 | | | | 180 | | | 29 | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | SP25+495 TO | | | 90-03-46 | | | 90° 03' 56" | | | | | | | | | |
| 16 | SP 30 | 6102.72 | | 269-55-54 | | | | 5.5 | | | | | | | | |
| 17 | | | A2 | 186° 29' 58" | | | | | | | | 231.63 | ⊙ | 30 | Lat 69° 56' 17" | |
| 18 | SP 30 TO | | | 89-57-09 | | | 89° 57' 15" | | | | | | | | 230.5 | |
| 19 | SP25+495 | 6102.72 | | 270-02-39 | | | | 5.5 | | | | | | | | |
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STADIA SURVEY NOTES

NPR #2

AREA IKPIKPUK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 24 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEN WEATHER: SAME 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 | | | | | | | | | | | 231.68 | 30 | | |
| 2 | <u>N</u> | <u>0</u> | <u>-</u> | | | | | | | | <u>237.18</u> | <u>Δ</u> | | |
| 3 | <u>SOUTH</u> | <u>1320</u> | | <u>90-09-34</u> | <u>C</u> | | | | | | <u>219</u> | <u>31</u> | | |
| 4 | " | <u>2640</u> | | <u>90-23-00</u> | <u>C</u> | | | | | | <u>205</u> | <u>32</u> | | |
| 5 | " | <u>3960</u> | | <u>90-07-43</u> | <u>C</u> | | | | | | <u>217</u> | <u>33</u> | | |
| 6 | " | <u>5280</u> | | <u>90-00-57</u> | <u>C</u> | | | | | | <u>222</u> | <u>34</u> | | |
| 7 | " | <u>6600</u> | | <u>89-53-55</u> | <u>C</u> | | | | | | <u>235</u> | <u>35</u> | | |
| 8 | | | | | | | | | | | | | | |
| 9 | <u>SP 30 TO</u> | | | <u>89-49-46</u> | <u>89°49'51"</u> | | | | | | | | | |
| 10 | <u>SP 36</u> | <u>7917.04</u> | | <u>270-10-05</u> | | | | <u>5.5</u> | | | | | | |
| 11 | | | <u>A2.</u> | <u>191°31'50"</u> | | | | | | | <u>256.23</u> | <u>⊙</u> | <u>36</u> | <u>Lat 69°55'01"</u> |
| 12 | <u>SP 36 TO</u> | | | <u>90-11-26</u> | <u>90°11'36"</u> | | | | | | | | | <u>254.6</u> |
| 13 | <u>SP 30</u> | <u>7917.04</u> | | <u>269-48-14</u> | | | | <u>5.5</u> | | | | | | |
| 14 | | | | | | | | | | | | | | |
| 15 | <u>N</u> | <u>0</u> | <u>-</u> | | | | | | | | <u>262.23</u> | <u>Δ</u> | | |
| 16 | <u>SOUTH</u> | <u>1320</u> | | <u>90-02-36</u> | <u>C</u> | | | | | | <u>247</u> | <u>37</u> | | |
| 17 | " | <u>2640</u> | | <u>90-25-23</u> | <u>C</u> | | | | | | <u>229</u> | <u>38</u> | | |
| 18 | " | <u>3960</u> | | <u>89-48-59</u> | <u>C</u> | | | | | | <u>261</u> | <u>39</u> | | |
| 19 | " | <u>5280</u> | | <u>89-48-10</u> | <u>C</u> | | | | | | <u>267</u> | <u>40</u> | | |
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STADIA SURVEY NOTES

NPR #4
 AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 8
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME 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 | | | | | | | | | | | | 256 ⁷³ | | | 36 | |
| 2 | SP 36 TO | | | 89-50-21 | | | 89°50'35" | | | | | | | | | |
| 3 | SP 41 | 6597 ⁵⁴ | | 270-09-125 | | | | | | | 5.5 | | | | | |
| 4 | | | A2 | 191°31'58" | | | | | | | | 275 ⁵⁴ | ⊙ | 41 | Lat. 69°53'58" | |
| 5 | SP 41 TO | | | 90-10-04 | | | 90°10'10" | | | | | | | | 272.6 | |
| 6 | SP 36 | 6597 ⁵⁴ | | 269-49-44 | | | | | | | 5.5 | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | ∇ | 0 | | | | | | | | | 5.5 | 281 ⁹³ | | Δ | | |
| 9 | SOUTH | 1320 | | 90-26-38 | | C | | | | | 143 | 256 | | 42 | | |
| 10 | " | 2640 | | 90-22-23 | | C | | | | | 143 | 250 | | 43 | | |
| 11 | " | 3960 | | 90-08-40 | | C | | | | | 143 | 257 | | 44 | | |
| 12 | " | 5280 | | 89-57-17 | | C | | | | | 143 | 271 | | 45 | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | SP 41 TO | | | 90-01-16 | | | 90°01'29" | | | | | | | | | |
| 15 | SP 45+165 | 5442 ⁹⁶ | | 269-53-18 | | | | | | | 5.5 | | | | | |
| 16 | | | A2 | 191°33'19" | | | | | | | | 273 ⁷³ | ⊙ | 45+165 | | |
| 17 | SP 45+165 TO | | | 89-59-04 | | | 89°59'15" | | | | | | | | Lat. 69°53'05" | |
| 18 | SP 41 | 5442 ⁹⁶ | | 270-00-35 | | | | | | | 5.5 | | | | 270.2 | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

NPR #4
 AREA IKPIK PUK STATE OR PROVINCE ALASKA PAGE No. 9
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN TIM VAN ALLEN WEATHER: windy, blowing snow,
hazy, sun shining 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. | ROD | | | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | Δ | 0 | - | | | | | | 5.5 | | | 279.25 | | | 45+165 | |
| 3 | SOUTH | 1155 | | 90-03-16 | | | | | 14.3 | | | | | Δ | | |
| 4 | " | 2475 | | 90-46-56 | | | | | 14.3 | | | 264 | | | 46 | |
| 5 | | | | | | | | | | | | 231 | | | 47 | |
| 6 | SP45+165 to | | | 90-37-59 | | | | | | | | | | | | |
| 7 | SP47+913 | 3386.73 | | 269-21-35 | | | | | 5.5 | | | | | | | 232.4 |
| 8 | | | Az. | 191°33'50" | | | | | | | | | | | | PIPE MARKED |
| 9 | SP47+913 to | | | 89-22-15 | | | | | | | | 236.59 | | \odot | 47+913 | INTERSECTION |
| 10 | SP45+165 | 3386.73 | | 270-37-32 | | | | | 5.5 | | | | | | | LAT. 69°52'33" |
| 11 | | | | | | | | | | | | | | | | SP-281+151-73 SP-471+913-74+0.170 |
| 12 | Δ | 0 | - | | | | | | 5.5 | | | 273.75 | | | 45+165 | |
| 13 | SP45+165 to | | | 89-56-41 | | | | | | | | | | Δ | | |
| 14 | SP282L-93 | 3661.84 | | 270-03-14 | | | | | 5.5 | | | | | | | |
| 15 | | | Az. | 173°00'10" | | | | | | | | | | | | |
| 16 | SP282L-93 to | | | 90-03-42 | | | | | | | | 277.52 | | \odot | 282 | LINE 93 273.1 |
| 17 | SP45+165 | | | 269-56-04 | | | | | 5.5 | | | | | | | LAT. 69°52'29" |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | Δ | 0 | - | | | | | | 5.5 | | | 236.39 | | Δ | 47+913 | Sumner Fruenter |

STADIA SURVEY NOTES

NPR #4
 AREA IKPIK PUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 10
 LINE No.(s) 94 PARTY No. 1182 DATE 29 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN J. VAN ALEN WEATHER: WINDY, ICE FOG, clear above, P.T.S. No. _____
cold, -20° (approx.)

| 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 | | | | | | | | | | | | 236.39 | | | 47+913 | |
| 2 | SP 47+913 TO | | | 86-37-09 | | 89.3706" | | | | | | | | | | |
| 3 | SP 281+800 | 649 | | 273-22-56 | | 86.3706 | | 5.5 | | | | | | | | |
| 4 | | | | 105' 43' 08" | | | | | | | | 274.87 | | ⊙ | 281+800 | LINE 93 |
| 5 | SP 281+800 TO | | | 93-24-01 | | 90.2414" | | | | | | | | | | |
| 6 | SP 47+913 | 649 | | 266-35-34 | | 93.2414 | | 5.5 | | | | | | | | |
| 7 | | | | | | | | | | | | | | | 281+800 | |
| 8 | ∩ | 0 | - | | | | | 5.5 | | | | | | Δ | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | SP 281+800 TO | | | 89-41-34 | | 89.4141" | | | | | | | | | | |
| 11 | SP 282 | 520' | | 270-18-12 | | | | 5.5 | | | | | | | | |
| 12 | | | | 105° 08' 46" | | | | | | | | 277.80 | | ⊙ | 282 | LINE 93 Page 44 |
| 13 | SP 282 TO | | | 90-20-18 | | 90.2025" | | | | | | 277.60 | | | Elev | 277.60 |
| 14 | SP 281+800 | | | 269-39-28 | | | | 5.5 | | MISTIE | | + .20 | | HIGH | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 11
 LINE No.(s) 94 PARTY No. 1182 DATE 30 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN J. VANALEN WEATHER: clear above, ice fog & misty, windy, P.T.S. No.
& cold, below zero

| 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 | | REF-10- | PAGE | 10- | LINE | 1 FOR | Elev | | → | | 236.39 | | 47+913L-94/281+51L-93 | 232.4 | |
| 2 | ⊥ | 0 | - | | | | | 5.5 | | | 241.89 | Δ | 69° 52' 33" | (PIPE) | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | SP 47+913 to | | 87-24-23 | | 87° 24' 21" | | | | | | | | | |
| 5 | | SP 48+178 584 1/2 | | 272-35-28 | | | | 5.5 | | | | | | | |
| 6 | | | | 201° 17' 44" | | | | | | | 262.93 | ⊙ | 48+178 | 69° 52' 27" | |
| 7 | | SP 48+178 to | | 92-36-22 | | 92° 36' 22" | | | | | | | | | |
| 8 | | SP 47+913 | | 267-23-37 | | | | 5.5 | | | | | | | |
| 9 | | | | | | | | | | | | | | | |
| 10 | ⊥ | 0 | - | | | | | 5.5 | | | 268.43 | Δ | | | |
| 11 | | | | | | | | | | | | | | | |
| 12 | | SP 48+178 to | | 89-43-25 | | 89° 43' 36" | | | | | | | | | |
| 13 | | SP 49+495 1636 1/2 | | 270-16-12 | | | | 5.5 | | | | | | | |
| 14 | | | | 201° 13' 23" | | | | | | | 211.02 | ⊙ | 49+495 | 69° 52' 12" | |
| 15 | | SP 49+495 to | | 90-17-03 | | 90° 17' 18" | | | | | | | | | |
| 16 | | SP 48+178 1636 1/2 | | 269-42-28 | | | | 5.5 | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | ⊥ | 0 | - | | | | | 5.5 | | | 276.8 | Δ | | | |
| 19 | NORTH | 1815 | | 90-01-17 | | C | | 23.5 | | | 252 | | 48 | | |
| 20 | " | 495 | | | | C | | 6.4 | | | 270 | | 49 | | |

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 12
 LINE No.(s) 94 - PARTY No. 1182 DATE 30 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: BLAME 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 | | | | | | | | | | | | 271.00 | | 49+495 | 69° 51' 24" |
| 2 | SOUTH | 825 | | 91-00-59 | | C | | | 14.3 | | | 248 | | 50 | |
| 3 | " | 2145 | | 90-52-30 | | C | | | 14.3 | | | 229 | | 51 | |
| 4 | " | 3465 | | 89-59-07 | | C | | | 14.3 | | | 263 | | 52 | |
| 5 | " | 4785 | | 89-57-22 | | C | | | 14.3 | | | 266 | | 53 | |
| 6 | | | | | | | | | | | | | | | |
| 7 | SP 49+495 TO | | | 269-57-09 | | | | | | | | | | | |
| 8 | SP 53+495 | 5277 24 | | 90-02-53 | | 90° 02' 53" | | | 5.5 | | | | | | |
| 9 | | | | 201° 16' 25" | | | | | | | | 267.62 | ⊙ | 53+495 | 69° 51' 24" |
| 10 | SP 53+495 TO | | | 89-58-17 | | 89° 58' 34" | | | | | | | | | |
| 11 | SP 49+495 | 5277 24 | | 270-01-08 | | | | | 5.5 | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | △ | 0 | - | | | | | | 5.5 | | | 273.19 | | | △ |
| 14 | SOUTH | 825 | | 90-25-59 | | C | | | 14.3 | | | 253 | | 54 | |
| 15 | " | 2145 | | 90-41-16 | | C | | | 14.3 | | | 233 | | 55 | |
| 16 | " | 3465 | | 90-35-10 | | C | | | 27.1 | | | 211 | | 56 | |
| 17 | " | 4785 | | 90-17-06 | | C | | | 14.3 | | | 235 | | 57 | |
| 18 | " | 6105 | | 90-22-10 | | C | | | 14.3 | | | 220 | | 58 | |
| 19 | " | 7425 | | 90-16-08 | | C | | | 14.3 | | | 224 | | 59 | |
| 20 | " | 8745 | | 90-13-00 | | C | | | 14.3 | | | 226 | | 60 | |

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NPR # 4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 13
 LINE No.(s) 94 PARTY No. 1182 DATE 30 Day 04 Mo. 77 Yr. BOOK No.
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME 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 | | | | | | | | | | | | | | | | |
| 2 | SOUTH | 10065 | | 90-11-22 | C | | | 143 | | | | 267.69 | | | 53+495 | |
| 3 | " | 11385 | | 90-09-27 | C | | | 143 | | | | 226 | | | 61 | |
| 4 | " | 12705 | | 90-06-38 | C | | | 143 | | | | 228 | | | 62 | |
| 5 | " | 14025 | | 89-38-42 | C | | | 143 | | | | 235 | | | 63 | |
| 6 | " | 2970 | | 90-26-38 | C | | | 143 | | | | 346 | | | 64 | |
| 7 | | | | | | | | | | | | 236 | | | 55+825 | |
| 8 | | | | 89-39-58 | | | | | | | | | | | | |
| 9 | | | | 270-19-41 | | | | 5.5 | | | | | | | | |
| 10 | | | | 187° 49' 26" | | | | | | | | 358.36 | ⊙ | ⊙ | 64+825 | |
| 11 | | | | 90-22-08 | | | | 90° 22' 08" | | | | | | | | 69° 49' 00" |
| 12 | | | | 269-37-51 | | | | 5.5 | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | 5.5 | | | | 363.86 | | △ | | |
| 15 | SOUTH | 495 | | | C | | | 129 | | | | 351 | | | 65 | |
| 16 | " | 1815 | | 90-41-18 | C | | | 143 | | | | 328 | | | 66 | |
| 17 | " | 3135 | | 90-52-23 | C | | | 143 | | | | 302 | | | 67 | |
| 18 | " | 4455 | | 90-47-11 | C | | | 143 | | | | 288 | | | 68 | |
| 19 | " | | | | | | | | | | | | | | | |
| 20 | " | | | | | | | | | | | | | | | |

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NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 14
 LINE No.(s) 94 PARTY No. 1182 DATE 20 Day 07 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VANALEY WEATHER: SAME, cold & windy 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 | | | | | | | | | | | | 358.36 | | 64+825 | | |
| 2 | SP64+825 TO | | | 90-46-51 | | 90 | 47'11" | | | | | | | | | |
| 3 | SP68+305 | 4757 | 61 | 269-12-29 | | | | 5.5 | | | | | | | | |
| 4 | | | | 187° 48' 22" | | | | | | | | 299.36 | ⊙ | 68+305 | 69° 48' 13" | |
| 5 | SP68+305 TO | | | 89-13-20 | | 89 | 13'15" | | | | | | | | | |
| 6 | SP64+825 | | | 270-46-50 | | | | 5.5 | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | ⌥ | 0 | - | | | | | 5.5 | | | | 298.86 | △ | | | |
| 9 | SOUTH | 1015 | | 92-06-41 | | | | 14.3 | | | | 247 | | 69 (PIPE) | | |
| 10 | " | 2170 | | 91-07-10 | | | | 14.3 | | | | 242 | | P.F. #4 (pin flag) | | |
| 11 | " | 3490 | | 90-59-47 | | | | 14.3 | | | | 224 | | " #8 | | |
| 12 | " | 4810 | | 90-44-47 | | | | 14.3 | | | | 222 | | " #12 | | |
| 13 | " | 6130 | | 90-25-23 | | | | 14.3 | | | | 239 | | " #16 | | |
| 14 | " | 7450 | | 90-09-30 | | | | 14.3 | | | | 264 | | " #20 | | |
| 15 | " | 8770 | | 90-09-08 | | | | 14.3 | | | | 264 | | " #24 | | |
| 16 | " | 190 | | 95-02-11 | | C | | 14.3 | | | | 268 | | 68+495 | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 15
 LINE No.(s) 94 PARTY No. 1182 DATE 30 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN J. VANALEN WEATHER: clear, cold, windy & sunny 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 of Factor | Hair Read | Reading | Correc-tion | Center Hair | | | INST. | ROD | | | |
| 1 | | | | | | | | | | | | | | | | 68+305 |
| 2 | \nearrow | 0 | - | | | | | | 4.2 | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | 89-12-24 | | | | | | | | | | | |
| 5 | | | | | 270-47-48 | | | | 5.5 | | | | | | | |
| 6 | | | | | | | | | | | | 358 ⁴⁴ | 0 | | | 64+825 |
| 7 | \nearrow | 0 | - | | | | | | 4.4 | | | | Δ | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | 90-46-09 | | | | | | | | | | | |
| 10 | | | | | 269-13-28 | | | | 5.5 | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | 90-21-44 | | | | | | | | | | | |
| 13 | | | | | 269-38-12 | | | | 5.5 | | | | | | | |
| 14 | | | | | | | | | | | | 267 ⁸⁸ | 0 | | | 53+495 |
| 15 | \nearrow | 0 | - | | | | | | 4.8 | | | | Δ | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | 89-39-34 | | | | | | | | | | | |
| 18 | | | | | 270-19-57 | | | | 5.5 | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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NPR #4

AREA IKPIKPUK-KEY CREEK STATE or PROVINCE ALASKA PAGE No. 16
 LINE No.(s) 94 PARTY No. 11 DATE 30 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ADEN WEATHER: SAME 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. | ROD | | | |
| 1 | | | | | | | | | | | | | 267 ⁰⁰ | | 53+495 | |
| 2 | \backslash | 0 | - | | | | | | 6.5 | | | | | Δ | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | 89-58-41 | | | | | | | | | | | |
| 5 | | | | | 270-01-31 | | | | 5.5 | | | | | | | |
| 6 | | | | | | | | | | | | | 271 ⁶² | \odot | 49+495 | |
| 7 | \backslash | 0 | - | | | | | | 6.7 | | | | | Δ | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | 90-03-22 | | | | | | | | | | | |
| 10 | | | | | 269-56-28 | | | | 5.5 | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | 90-19-27 | | | | | | | | | | | |
| 13 | | | | | 269-40-54 | | | | 5.5 | | | | | | | |
| 14 | | | | | | | | | | | | | 263 ⁶⁶ | \odot | 48+178 | |
| 15 | \backslash | 0 | - | | | | | | 6.9 | | | | | Δ | | |
| 16 | | | | | 89-45-50 | | | | | | | | | | | |
| 17 | | | | | 270-14-09 | | | | 5.5 | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |

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STADIA SURVEY NOTES

NPR #4

AREA IKPIKPUK - KEY CREEK STATE or PROVINCE ALASKA PAGE No. 17
 LINE No.(s) 94 PARTY No. 1182 DATE 30 Day 04 Mo. 77 Yr. BOOK No. _____
 SURVEYOR FRANK W. WITTIE RODMAN T. VAN ALEN WEATHER: SAME 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 | | | | | | | | | | | | | 263 ⁶⁵ | | 48+178 | |
| 2 | π | 0 | - | | | | | | | | | | | | | Δ |
| 3 | | | | | | | | | | | | | | | | |
| 4 | SP48+178 to | | | 92-41-53 | | | | | | | | | | | | |
| 5 | SP47+913 | | | 267-17-31 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | 236 ⁷⁵ | | 47+913 | \odot |
| 7 | π | 0 | - | | | | | | | | | | 236 ³⁹ | | | Δ |
| 8 | | | | | | | | | | | | | | | | |
| 9 | SP47+913 to | | | 87-26-02 | | | | | | | | | | | | |
| 10 | SP48+178 | | | 272-33-43 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
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MISTAKE + .37 HIGH REF PAGE 11
LINE 1