















# VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 164 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NIK DATE 8 BY 2 MO 79 YR  
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br><br> | STATION | VERTICAL |   |   |                     |               |           | ELEVATION            |      | L/R OR DI | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |     |
|------|--|---------|----------|---|---|---------------------|---------------|-----------|----------------------|------|-----------|-------------------------------|------|---------|-----|
|      |  |         | DISTANCE | <input type="checkbox"/> FEET<br><input checked="" type="checkbox"/> METERS             |   | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST |           |                               |      |         | ROD |
|      |  |         |          | SLOPE  | HORIZ  |                     |               |           |                      |      |           |                               |      |         |     |
| 1    |  |         |          |   |   |                     |               |           |                      |      |           |                               | 1    |         |     |
| 2    |  |         | T.S. 1   | ON ICE  | = SEA   | LEVEL               |               |           |                      |      |           |                               | 2    |         |     |
| 3    |  |         |          |   |   |                     |               |           |                      |      |           |                               | 3    |         |     |
| 4    |  |         |          |   |   |                     |               |           | 42.8                 |      | 79076     |                               | 4    | (4278)  |     |
| 5    |   | 79076   | 3135     |   | 90 01 30  | 9.07                | +10.0         | 51.7      |                      |      |           |                               | 5    |         |     |
| 6    |   | -5 P. 1 | 3135     |   | 76 58 50  | 9.07                |               |           |                      |      |           |                               | 6    |         |     |
| 7    |  | 2       | 1815     |   | 89 54 20  | 9.0                 | -5.4          |           | 45.8                 |      |           |                               | 7    |         |     |
| 8    |  | 3       | 495      |   | 89 35 50  | 9.0                 | -5.5          |           | 46.2                 |      |           |                               | 8    |         |     |
| 9    |   | 3+495   | 0        |   | 90 —  | 5.0                 | -5.0          |           | 46.7                 |      |           |                               | 9    |         |     |
| 10   |  | 4       | 825      |   | 89 45 10  | 9.0                 | -5.4          |           | 46.3                 |      |           |                               | 10   |         |     |
| 11   |  | 5       | 2145     |   | 89 51 20  | 9.0                 | -3.5          |           | 48.2                 |      |           |                               | 11   |         |     |
| 12   |   | 6       | 3465     |   | 89 55 50  | 9.07                | -4.3          |           | 47.4                 |      |           |                               | 12   |         |     |
| 13   |   |         | ✓        |   | 270 09 40   | 9.0                 |               |           |                      |      |           |                               | 13   |         |     |
| 14   |  |         |          |   |   |                     |               |           |                      |      |           |                               | 14   |         |     |
| 15   |   | 6       | 2640     |   | 89 59 40  | 9.07                | +8.5          | 54.9      |                      |      |           |                               | 15   |         |     |
| 16   |   |         | ✓        |   | 270 00 30   | 9.07                |               |           |                      |      |           |                               | 16   |         |     |
| 17   |  | 7       | 1320     |   | 89 53 10  | 9.0                 | -6.3          |           | 48.6                 |      |           |                               | 17   |         |     |

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SYMBOLS

 = BACKSIGHT

 = INSTRUMENT SET-UP

SS = SIDESHOT

 = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Ballow STATE/COUNTY \_\_\_\_\_ BOOK NO. 1 PAGE 165 OF \_\_\_\_\_  
 LINE/LOOP NO. 612 TYPE SURVEY \_\_\_\_\_ CLIENT Husky NR DATE 8 BY 2 MO 79 YR  
 SURVEYOR TJ Sheahan INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

| LINE | <input type="checkbox"/> $\Delta$<br><input type="checkbox"/> SS<br><input type="checkbox"/> $\odot$ | STATION  | VERTICAL |   |       |                     |               |           | ELEVATION            |      | L/R OR DI | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |     |
|------|--|----------|----------|---|-------|---------------------|---------------|-----------|----------------------|------|-----------|-------------------------------|------|---------|-----|
|      |  |          | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS |       | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST |           |                               |      |         | ROD |
|      |  |          |          | SLOPE   | HORIZ |                     |               |           |                      |      |           |                               |      |         |     |
| 1    |  |          |          |   |       |                     |               |           |                      | 54.9 |           |                               | 1    |         |     |
| 2    | $\pi$  | S.P. 8   | 0        |   | 90    | —                   | 5.0           |           | -5.0                 |      | 49.9      |                               | 2    |         |     |
| 3    |  | 9        | 13.2     |   | 89    | 53 30               | 9.0           |           | -6.5                 |      | 48.4      |                               | 3    |         |     |
| 4    |  | 10       | 26.4     |   | 89    | 42 10               | 9.0           |           | +4.8                 |      | 59.7      |                               | 4    |         |     |
| 5    | $\odot$  | 10 + 825 | 346.5    |   | 89    | 41 50               | 9.0           |           | +9.7                 |      | 64.6      |                               | 5    |         |     |
| 6    | $\odot$  |          |          |   | 270   | 18 30               | 9.0           |           |                      |      |           |                               | 6    |         |     |
| 7    |  |          |          |   |       |                     |               |           |                      |      |           |                               | 7    |         |     |
| 8    | $\Delta$   | 10 + 825 | 26.4     |   | 89    | 49 10               | 9.0           |           | +0.3                 | 63.9 |           |                               | 8    |         |     |
| 9    | $\Delta$   |          |          |   | 270   | 11 20               | 9.0           |           |                      |      |           |                               | 9    |         |     |
| 10   |  | 11       | 21.45    |   | 89    | 59 30               | 9.0           |           | -8.6                 |      | 55.3      |                               | 10   |         |     |
| 11   |  | 12       | 825      |   | 90    | 24 50               | 9.0           |           | -14.9                |      | 49.0      |                               | 11   |         |     |
| 12   | $\pi$  | 12 + 825 | 0        |   | 90    | —                   | 5.0           |           | -5.0                 |      | 58.9      |                               | 12   |         |     |
| 13   |  | 13       | 495      |   | 90    | 20 20               | 9.0           |           | -11.9                |      | 52.0      |                               | 13   |         |     |
| 14   |  | 14       | 1815     |   | 89    | 57 50               | 9.0           |           | -7.8                 |      | 56.1      |                               | 14   |         |     |
| 15   | $\odot$  | 15       | 3135     |   | 89    | 58 40               | 9.0           |           | -7.3                 |      | 56.6      |                               | 15   |         |     |
| 16   | $\odot$  |          |          |   | 270   | 02 00               | 9.0           |           |                      |      |           |                               | 16   |         |     |
| 17   |  |          |          |   |       |                     |               |           |                      |      |           |                               | 17   |         |     |

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SYMBOLS  $\Delta$  = BACKSIGHT  $\pi$  = INSTRUMENT SET-UP SS = SIDESHOT  $\odot$  = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 166 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NR DATE 8 DY 2 MO 79 YR  
 SURVEYOR T. SHARILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | △<br>↑<br>SS<br>⊙ | STATION   | VERTICAL |                |           |                        |                        |              | HORIZONTAL                 |           |              | REMARKS |              |                                     |      |
|------|-------------------|-----------|----------|----------------|-----------|------------------------|------------------------|--------------|----------------------------|-----------|--------------|---------|--------------|-------------------------------------|------|
|      |                   |           | DISTANCE | FEET<br>METERS |           | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | ELEVATION |              |         | L/R OR<br>DI | RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE |
|      |                   |           |          | SLOPE          | HORIZ     |                        |                        |              |                            | INST      | ROD          |         |              |                                     |      |
| 1    |                   |           |          |                |           |                        |                        |              |                            |           |              |         | 1            |                                     |      |
| 2    | △                 | st. 15    | 1918     |                | 89 47 30  | 9.0                    | +4.6                   | 61.2         |                            |           |              |         | 2            |                                     |      |
| 3    | △                 |           |          |                | 270 13 10 | 9.0                    |                        |              |                            |           |              |         | 3            |                                     |      |
| 4    |                   | 16        | 598      |                | 89 44 40  | 9.0                    | -6.3                   |              | 54.9                       |           |              |         | 4            |                                     |      |
| 5    | ↑                 | 16 + 598  | 0        |                | 90 —      | 5.0                    | -5.0                   |              | 56.2                       |           |              |         | 5            |                                     |      |
| 6    | ⊙                 | 79077     | 0        |                | 90 —      | 5.0                    | -5.0                   |              | 56.2                       |           | 79077 BAR    |         | 6            | (5623)                              |      |
| 7    | ⊙                 | -16 + 598 | 0        |                | 270 —     | 5.0                    |                        |              | 59.4                       |           | 79077 - 1182 |         | 7            |                                     |      |
| 8    |                   |           |          |                |           |                        |                        |              | +3.2                       |           | MISTIE       |         | 8            |                                     |      |
| 9    |                   |           |          |                |           |                        |                        |              |                            |           |              |         | 9            |                                     |      |
| 10   |                   |           |          |                |           |                        |                        |              |                            |           |              |         | 10           |                                     |      |
| 11   |                   |           |          |                |           |                        |                        |              | 56.2                       |           | 79077        |         | 11           |                                     |      |
| 12   | △                 | 79077     | 0        |                | 90 —      | 5.0                    | +5.0                   | 61.6         |                            |           |              |         | 12           |                                     |      |
| 13   | △                 | -16 + 598 | 0        |                | 270 —     | 5.0                    |                        |              |                            |           |              |         | 13           |                                     |      |
| 14   | ↑                 | 16 + 598  | 0        |                | 90 —      | 5.0                    | -5.0                   |              | 56.6                       |           |              |         | 14           |                                     |      |
| 15   |                   | 17        | 722      |                | 90 02 50  | 9.0                    | -2.6                   |              | 52.0                       |           |              |         | 15           |                                     |      |
| 16   |                   | 18        | 2042     |                | 90 00 20  | 9.0                    | -2.1                   |              | 52.5                       |           |              |         | 16           |                                     |      |
| 17   |                   |           |          |                |           |                        |                        |              |                            |           |              |         | 17           |                                     |      |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 167 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NFR DATE 8 DY 2 MO 29 YR  
 SURVEYOR T. SHERKILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION  | VERTICAL |   |                        |                        |              |                            | ELEVATION |      | L/R OR DI | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |
|------|----------|----------|----------|---|------------------------|------------------------|--------------|----------------------------|-----------|------|-----------|---|------|---------|
|      |          |          | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST      | ROD  |           |   |      |         |
|      |          |          |          | SLOPE<br>   |                        |                        |              |                            |           |      |           |   |      |         |
| 1    |          |          |          |   |                        |                        |              |                            |           |      |           |   |      |         |
| 2    |          | S.H. 19  | 3362     |   | 89 57 10               | 9.0?                   |              | -5.8                       |           | 61.6 | 55.8      |   |      | 2       |
| 3    |          |          | ✓        |   | 270 03 20              | 9.0                    |              |                            |           |      |           |   |      | 3       |
| 4    |          |          |          |   |                        |                        |              |                            |           |      |           |   |      | 4       |
| 5    |          | 19       | 3195     |   | 89 53 30               | 9.0?                   |              | +2.6                       |           | 58.5 |           |   |      | 5       |
| 6    |          |          | ✓        |   | 270 07 10              | 9.0                    |              |                            |           |      |           |   |      | 6       |
| 7    |          | 20       | 1815     |   | 89 51 20               | 9.0                    |              | -9.4                       |           |      | 54.1      |   |      | 7       |
| 8    |          | 21       | 425      |   | 89 36 50               | 9.0                    |              | -5.7                       |           |      | 52.8      |   |      | 8       |
| 9    |          | 21 + 425 | 0        |   | 90 —                   | 5.0                    |              | -5.0                       |           |      | 53.5      |   |      | 9       |
| 10   |          | 22       | 825      |   | 89 14 30               | 9.0                    |              | +1.9                       |           |      | 60.4      |   |      | 10      |
| 11   |          | 23       | 2145     |   | 89 35 00               | 9.0?                   |              | +6.9                       |           |      | 65.4      |   |      | 11      |
| 12   |          |          | ✓        |   | 270 25 40              | 9.0                    |              |                            |           |      |           |   |      | 12      |
| 13   |          |          |          |   |                        |                        |              |                            |           |      |           |   |      | 13      |
| 14   |          | 23       | 3465     |   | 89 56 00               | 9.0?                   |              | +4.4                       |           | 70.1 |           |   |      | 14      |
| 15   |          |          | ✓        |   | 270 04 40              | 9.0                    |              |                            |           |      |           |   |      | 15      |
| 16   |          | 24       | 2145     |   | 89 55 30               | 9.0                    |              | -6.1                       |           |      | 64.0      |   |      | 16      |
| 17   |          | 25       | 825      |   | 89 44 00               | 9.0                    |              | -5.1                       |           |      | 65.0      |   |      | 17      |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 168 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NRC DATE 8 DY 2 MO 29 YR  
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | △<br>↑<br>SS<br>⊙ | STATION       | VERTICAL |                |            |                        |                        |              | ELEVATION                  |      | L/R OR DI | RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |     |
|------|-------------------|---------------|----------|----------------|------------|------------------------|------------------------|--------------|----------------------------|------|-----------|-------------------------------------|------|---------|-----|
|      |                   |               | DISTANCE | FEET<br>METERS |            | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST |           |                                     |      |         | ROD |
|      |                   |               |          | SLOPE<br>▽     | HORIZ<br>▽ |                        |                        |              |                            |      |           |                                     |      |         |     |
| 1    |                   |               |          |                |            |                        |                        |              |                            | 70.1 |           |                                     | 1    |         |     |
| 2    | π                 | 25 + 825      | 0        |                | 90         | —                      | 50                     |              | -5.0                       |      | 65.1      |                                     | 2    |         |     |
| 3    |                   | 26            | 495      |                |            |                        | 89 36 50               | 9.0          | -5.7                       |      | 64.4      |                                     | 3    |         |     |
| 4    |                   | 27            | 1815     |                |            |                        | 89 51 40               | 9.0          | -4.5                       |      | 65.6      |                                     | 4    |         |     |
| 5    |                   | 28            | 3135     |                |            |                        | 89 40 50               | 9.0          | +8.7                       |      | 78.8      |                                     | 5    |         |     |
| 6    | ⊙                 | 79078         | 3144     |                |            |                        | 89 40 40               | 9.07         | +9.2                       |      | 79.3      | 79078 - BAR                         | 6    | (79.26) |     |
| 7    | ⊙                 | = 28 + 09     | ✓        |                |            |                        | 270 20 00              | 9.0          |                            |      | 78.5      | 79078 - 1182                        | 7    |         |     |
| 8    |                   |               |          |                |            |                        |                        |              |                            |      | +0.8      | MISTAKE                             | 8    |         |     |
| 9    |                   |               |          |                |            |                        |                        |              |                            |      |           |                                     | 9    |         |     |
| 10   |                   |               |          |                |            |                        |                        |              |                            |      |           |                                     | 10   |         |     |
| 11   |                   |               |          |                |            |                        |                        |              |                            |      | 79.3      | 79078                               | 11   |         |     |
| 12   | △                 | 79078         | 2631     |                |            |                        | 89 39 30               | 9.07         | -6.9                       | 72.1 |           |                                     | 12   |         |     |
| 13   | △                 | = 5P. 78 + 09 | ✓        |                |            |                        | 270 20 4               | 9.0          |                            |      |           |                                     | 13   |         |     |
| 14   |                   | 29            | 1320     |                |            |                        | 89 60 30               | 9.0          | -5.3                       |      | 66.8      |                                     | 14   |         |     |
| 15   | π                 | 30            | 0        |                |            |                        | 90                     | —            | 5.0                        |      | 67.1      |                                     | 15   |         |     |
| 16   |                   | 31            | 1320     |                |            |                        | 90 06 30               | 9.0          | -10.3                      |      | 61.8      |                                     | 16   |         |     |
| 17   |                   |               |          |                |            |                        |                        |              |                            |      |           |                                     | 17   |         |     |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

6

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 169 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NPR DATE 9 DY 2 MO 79 YR  
 SURVEYOR T. SHERKILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION | VERTICAL |   |           |                        |                        |              | ELEVATION                  |      | L/R OR DI | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |     |
|------|----------|---------|----------|---|-----------|------------------------|------------------------|--------------|----------------------------|------|-----------|---|------|---------|-----|
|      |          |         | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS |           | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST |           |   |      |         | ROD |
|      |          |         |          | SLOPE<br>   | HORIZ<br> |                        |                        |              |                            |      |           |   |      |         |     |
| 1    |          |         |          |   |           |                        |                        |              |                            | 72.1 |           |   | 1    |         |     |
| 2    |          | SP. 32  | 26.90    |   |           | 90 09 50               | 9.07                   | -16.4        |                            | 55.7 |           |   | 2    |         |     |
| 3    |          |         | ✓        |   |           | 269 50 10              | 9.07                   |              |                            |      |           |   | 3    |         |     |
| 4    |          |         |          |   |           |                        |                        |              |                            |      |           |   | 4    |         |     |
| 5    |          | 32      | 26.90    |   |           | 89 54 30               | 9.07                   | +4.6         |                            | 60.1 |           |   | 5    |         |     |
| 6    |          |         | ✓        |   |           | 270 05 30              | 9.07                   |              |                            |      |           |   | 6    |         |     |
| 7    |          | 33      | 13.20    |   |           | 89 49 50               | 9.0                    | -5.1         |                            | 55.0 |           |   | 7    |         |     |
| 8    |          | 34      | 0        |   |           | 90 —                   | 5.0                    | -5.0         |                            | 55.1 |           |   | 8    |         |     |
| 9    |          | 35      | 13.20    |   |           | 89 49 40               | 9.0                    | -5.0         |                            | 55.1 |           |   | 9    |         |     |
| 10   |          | 36      | 26.90    |   |           | 89 59 20               | 9.07                   | -8.3         |                            | 51.8 |           |   | 10   |         |     |
| 11   |          |         | ✓        |   |           | 270 00 40              | 9.07                   |              |                            |      |           |   | 11   |         |     |
| 12   |          |         |          |   |           |                        |                        |              |                            |      |           |   | 12   |         |     |
| 13   |          | 36      | 26.90    |   |           | 89 48 10               | 9.07                   | -0.3         |                            | 51.2 |           |   | 13   |         |     |
| 14   |          |         | ✓        |   |           | 270 12 00              | 9.07                   |              |                            |      |           |   | 14   |         |     |
| 15   |          | 37      | 13.20    |   |           | 89 40 40               | 9.0                    | -1.5         |                            | 49.7 |           |   | 15   |         |     |
| 16   |          | 38      | 0        |   |           | 90 —                   | 5.0                    | -5.0         |                            | 46.2 |           |   | 16   |         |     |
| 17   |          | 39      | 13.20    |   |           | 90 00 10               | 9.0                    | -9.0         |                            | 42.2 |           |   | 17   |         |     |

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### HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 170 OF         
 LINE/LOOP NO. 612 TYPE SURVEY        CLIENT MUSKEY APR DATE 9 DY 2 MO 79 YR  
 SURVEYOR T. SPERRILL INSTRUMENT DESC/SERIAL NO.        CREW NO. 1182

| LINE | △<br>↑<br>SS<br>⊙ | STATION | VERTICAL |                |            |                        |                        |              | ELEVATION                  |      | L/R OR DI | RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |     |
|------|-------------------|---------|----------|----------------|------------|------------------------|------------------------|--------------|----------------------------|------|-----------|-------------------------------------|------|---------|-----|
|      |                   |         | DISTANCE | FEET<br>METERS |            | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST |           |                                     |      |         | ROD |
|      |                   |         |          | SLOPE<br>▽     | HORIZ<br>▽ |                        |                        |              |                            |      |           |                                     |      |         |     |
| 1    |                   |         |          |                |            |                        |                        |              | 51.2                       |      |           |                                     | 1    |         |     |
| 2    | ⊙                 | S.P. 40 | 2640     |                | 90 00 00   | 9.0                    |                        | -8.8         |                            | 42.4 |           |                                     | 2    |         |     |
| 3    | ⊙                 |         | ✓        |                | 270 00 10  | 9.0                    |                        |              |                            |      |           |                                     | 3    |         |     |
| 4    |                   |         |          |                |            |                        |                        |              |                            |      |           |                                     | 4    |         |     |
| 5    | ⊙                 | 40      | 2145     |                | 90 16 00   | 9.0                    |                        | +10.8        | 60.9                       |      |           |                                     | 5    |         |     |
| 6    | △                 |         | ✓        |                | 269 44 20  | 9.0                    |                        |              |                            |      |           |                                     | 6    |         |     |
| 7    |                   | 41      | 825      |                | 90 25 50   | 9.0                    |                        | -15.2        |                            | 45.7 |           |                                     | 7    |         |     |
| 8    | π                 | 41+825  | 0        |                | 90 — 5.0   | 9.0                    |                        | -5.0         |                            | 55.9 |           |                                     | 8    |         |     |
| 9    |                   | 42      | 495      |                | 90 35 00   | 9.0                    |                        | -14.0        |                            | 46.9 |           |                                     | 9    |         |     |
| 10   |                   | 43      | 1815     |                | 90 12 20   | 9.0                    |                        | -15.4        |                            | 45.5 |           |                                     | 10   |         |     |
| 11   | ⊙                 | 44      | 3135     |                | 90 05 40   | 9.0                    |                        | -13.8        |                            | 47.1 |           |                                     | 11   |         |     |
| 12   | ⊙                 |         | ✓        |                | 269 54 40  | 9.0                    |                        |              |                            |      |           |                                     | 12   |         |     |
| 13   |                   |         |          |                |            |                        |                        |              |                            |      |           |                                     | 13   |         |     |
| 14   | △                 | 44      | 2670     |                | 90 05 00   | 9.0                    |                        | +12.6        | 59.7                       |      |           |                                     | 14   |         |     |
| 15   | △                 |         | ✓        |                | 269 55 20  | 9.0                    |                        |              |                            |      |           |                                     | 15   |         |     |
| 16   |                   | 45      | 1350     |                | 90 07 40   | 9.0                    |                        | -12.0        |                            | 47.7 |           |                                     | 16   |         |     |
| 17   |                   |         |          |                |            |                        |                        |              |                            |      |           |                                     | 17   |         |     |

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# VERTICAL AND HORIZONTAL SURVEY NOTES

GSI AREA Barlow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 171 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT ANSLY HAR DATE 9 DY 2 MO 79 YR  
 SURVEYOR T. SHERILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | △<br>↑<br>SS<br>⊙ | STATION   | VERTICAL |                |           |                        |                        |              | ELEVATION                  |       | L/R OR DI | RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |     |
|------|-------------------|-----------|----------|----------------|-----------|------------------------|------------------------|--------------|----------------------------|-------|-----------|-------------------------------------|------|---------|-----|
|      |                   |           | DISTANCE | FEET<br>METERS |           | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST  |           |                                     |      |         | ROD |
|      |                   |           |          | SLOPE          | HORIZ     |                        |                        |              |                            |       |           |                                     |      |         |     |
| 1    |                   |           |          |                |           |                        |                        |              |                            |       |           |                                     |      |         |     |
| 2    |                   | S.P. 46   | 30       |                | 90 —      | 5.0                    |                        | -5.0         |                            | 59.7  |           |                                     |      |         |     |
| 3    |                   | T 46+30   | 0        |                | 90 —      | 5.0                    |                        | -5.0         |                            | 54.7  |           |                                     |      |         |     |
| 4    |                   | O 79079   | 0        |                | 90 —      | 5.07                   |                        | -5.0         |                            | 54.7  |           | 79079-8AR                           |      | (54.70) |     |
| 5    |                   | O = 46+30 | 0        |                | 270 —     | 5.07                   |                        |              |                            | 55.8  |           | 79079-1182                          |      |         |     |
| 6    |                   |           |          |                |           |                        |                        |              |                            | ± 1.1 |           | MISTLE                              |      |         |     |
| 7    |                   |           |          |                |           |                        |                        |              |                            |       |           |                                     |      |         |     |
| 8    |                   |           |          |                |           |                        |                        |              |                            |       |           |                                     |      |         |     |
| 9    |                   |           |          |                |           |                        |                        |              |                            | 54.7  |           | 79079                               |      |         |     |
| 10   |                   | △ 79079   | 0        |                | 90 —      | 5.07                   |                        | +5.0         | 59.0                       |       |           |                                     |      |         |     |
| 11   |                   | △ = 46+30 | 0        |                | 270 —     | 5.0                    |                        |              |                            |       |           |                                     |      |         |     |
| 12   |                   | T 46+30   | 0        |                | 90 —      | 5.0                    |                        | -5.0         |                            | 54.0  |           |                                     |      |         |     |
| 13   |                   | 47        | 12.90    |                | 89 48.40  | 9.0                    |                        | -4.7         |                            | 54.3  |           |                                     |      |         |     |
| 14   |                   | 48        | 26.10    |                | 89 55.50  | 9.0                    |                        | -5.7         |                            | 53.3  |           |                                     |      |         |     |
| 15   |                   | O 49      | 39.30    |                | 89 58.50  | 9.07                   |                        | -7.2         |                            | 51.8  |           |                                     |      |         |     |
| 16   |                   | O         | ✓        |                | 270 01 30 | 9.0                    |                        |              |                            |       |           |                                     |      |         |     |
| 17   |                   |           |          |                |           |                        |                        |              |                            |       |           |                                     |      |         |     |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

9

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 172 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NAR DATE 9 DY 2 MO 79 YR  
 SURVEYOR T. SHERIDAN INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | △<br>SS<br>⊙ | STATION   | VERTICAL |        |                     |               |           |                      | ELEVATION |     | L/R OR DI | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |
|------|--------------|-----------|----------|--------|---------------------|---------------|-----------|----------------------|-----------|-----|-----------|-------------------------------|------|---------|
|      |              |           | DISTANCE | FEET   | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD |           |                               |      |         |
|      |              |           |          | METERS |                     |               |           |                      |           |     |           |                               |      |         |
| 1    |              |           |          |        |                     |               |           |                      |           |     |           | 1                             |      |         |
| 2    | △            | 51. 49    | 1155     |        | 90 22 20            | 9.07          |           | +16.4                | 68.1      |     |           | 2                             |      |         |
| 3    | △            |           | ✓        |        | 269 38 00           | 9.07          |           |                      |           |     |           | 3                             |      |         |
| 4    | △            | 49 + 1155 | 0        |        | 90 —                | 5.0           |           | -5.0                 | 63.1      |     |           | 4                             |      |         |
| 5    |              | 50        | 165      |        | 89 28 00            | 9.0           |           | -7.5                 | 60.6      |     |           | 5                             |      |         |
| 6    | ⊙            | 50 + 825  | 990      |        | 89 49 30            | 9.07          |           | -5.9                 | 62.2      |     |           | 6                             |      |         |
| 7    | ⊙            |           | ✓        |        | 270 11 00           | 9.07          |           |                      |           |     |           | 7                             |      |         |
| 8    |              |           |          |        |                     |               |           |                      |           |     |           | 8                             |      |         |
| 9    | △            | 50 + 825  | 3135     |        | 89 46 20            | 9.07          |           | -3.8                 | 57.6      |     |           | 9                             |      |         |
| 10   | △            |           | ✓        |        | 270 14 00           | 9.07          |           |                      |           |     |           | 10                            |      |         |
| 11   |              | 51.       | 2640     |        | 89 54 40            | 9.0           |           | -4.8                 | 52.8      |     |           | 11                            |      |         |
| 12   |              | 52        | 1320     |        | 89 49 10            | 9.0           |           | -4.8                 | 52.8      |     |           | 12                            |      |         |
| 13   | △            | 53        | 0        |        | 90 —                | 5.0           |           | -5.0                 | 52.6      |     |           | 13                            |      |         |
| 14   |              | 54        | 1320     |        | 89 45 10            | 9.0           |           | -3.3                 | 54.3      |     |           | 14                            |      |         |
| 15   |              | 55        | 2640     |        | 89 53 00            | 9.0           |           | -3.5                 | 54.1      |     |           | 15                            |      |         |
| 16   | ⊙            | 56        | 3960     |        | 89 55 20            | 9.07          |           | -3.0                 | 54.6      |     |           | 16                            |      |         |
| 17   | ⊙            |           | ✓        |        | 270 05 10           | 9.07          |           |                      |           |     |           | 17                            |      |         |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

10

GSI AREA BALDWIN STATE/COUNTY ALASKA BOOK NO. 1 PAGE 173 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY N/A DATE 9 DY 2 MO 79 YR  
 SURVEYOR T. SWELLER INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <input type="checkbox"/> Δ<br><input type="checkbox"/> SS<br><input type="checkbox"/> ⊙ | STATION          | VERTICAL |   |                     |               |           |                      | ELEVATION |     | L/R OR DI   | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |
|------|---|------------------|----------|---|---------------------|---------------|-----------|----------------------|-----------|-----|-------------|-------------------------------|------|---------|
|      |   |                  | DISTANCE | <input type="checkbox"/> FEET<br><input checked="" type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD |             |                               |      |         |
|      |   |                  |          | SLOPE   |                     |               |           |                      |           |     |             |                               |      |         |
| 1    |   |                  |          |   |                     |               |           |                      |           |     |             | 1                             |      |         |
| 2    | Δ   | S.P. 56          | 3960     |   | 90 05 20            | 907           | +14.5     | 70.4                 |           |     |             | 2                             |      |         |
| 3    | Δ   |                  | ✓        |   | 269 55 10           | 907           |           |                      |           |     |             | 3                             |      |         |
| 4    |   | 57               | 2640     |   | 90 04 00            | 90            | -11.9     |                      | 58.5      |     |             | 4                             |      |         |
| 5    |   | 58               | 1320     |   | 90 10 30            | 90            | -13.0     |                      | 57.4      |     |             | 5                             |      |         |
| 6    | π   | 59               | 0        |   | 90 —                | 5.0           | -5.0      |                      | 65.4      |     |             | 6                             |      |         |
| 7    |   | 60               | 1320     |   | 89 49 10            | 90            | -4.8      |                      | 65.6      |     |             | 7                             |      |         |
| 8    |   | 61               | 2640     |   | 90 00 40            | 90            | -9.4      |                      | 61.0      |     |             | 8                             |      |         |
| 9    | ⊙   | 62               | 3960     |   | 90 08 30            | 907           | -18.2     |                      | 50.2      |     |             | 9                             |      |         |
| 10   | ⊙   |                  | ✓        |   | 269 52 00           | 907           |           |                      |           |     |             | 10                            |      |         |
| 11   |   |                  |          |   |                     |               |           |                      |           |     |             | 11                            |      |         |
| 12   | Δ   | 62               | 3135     |   | 89 59 00            | 907           | +7.7      | 57.9                 |           |     |             | 12                            |      |         |
| 13   | Δ   |                  | ✓        |   | 270 01 30           | 907           |           |                      |           |     |             | 13                            |      |         |
| 14   |   | 63               | 2845     | (90 34 00)  | 90 34 00            | 90            | -26.9     |                      | 31.0      |     |             | 14                            |      |         |
| 15   |   | 64               | 495      |   | 91 51 50            | 90            | -25.1     |                      | 32.8      |     |             | 15                            |      |         |
| 16   | π   | 64+495           | 0        |   | 90 —                | 5.0           | -5.0      |                      | 52.9      |     |             | 16                            |      |         |
| 17   | ⊙   | 79080            | 0        |   | 90 —                | 5.07          | -5.0      |                      | 52.9      |     | 79080-BALL  | 17                            |      |         |
|      |   | 0 79080 = 64+495 | 0        |   | 270 —               | 5.07          |           |                      | 53.3      |     | 79080 -1182 |                               |      |         |

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 p. 176

# HORIZONTAL AND VERTICAL SURVEY NOTES

11

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 174 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT Husky NPR DATE 9 DY 2 MO 29 YR  
 SURVEYOR T. STELLINE INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION | VERTICAL  |   |                        |                        |              |                            | ELEVATION |     | LR OR DR | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE  | REMARKS |
|------|----------|---------|-----------|---|------------------------|------------------------|--------------|----------------------------|-----------|-----|----------|---|-------|---------|
|      |          |         | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST      | ROD |          |   |       |         |
|      |          |         | <br>SLOPE | <br>HORIZ   |                        |                        |              |                            |           |     |          |   |       |         |
| 1    |          |         |           |   |                        |                        |              |                            |           |     |          |   |       |         |
| 2    |          | 79080   | 0         |   | 90 —                   | 5.07                   |              | +5.0                       | 57.9      |     |          | 52.9  | 79080 | 1       |
| 3    |          | =64+495 | 0         |   | 270 —                  | 5.07                   |              |                            |           |     |          |   |       | 2       |
| 4    |          | 64+495  | 0         |   | 90 —                   | 5.0                    |              | -5.0                       |           |     |          | 52.9  |       | 3       |
| 5    |          | 65      | 825       |   | 89 59 30               | 9.0                    |              | -8.9                       |           |     |          | 49.0  |       | 4       |
| 6    |          | 66      | 2145      |   | 89 56 20               | 9.0                    |              | -6.6                       |           |     |          | 51.3  |       | 5       |
| 7    |          | 67      | 3465      |   | 89 57 10               | 9.07                   |              | -5.6                       |           |     |          | 52.9  |       | 6       |
| 8    |          |         | ✓         |   | 270 03 20              | 9.07                   |              |                            |           |     |          |   |       | 7       |
| 9    |          |         |           |   |                        |                        |              |                            |           |     |          |   |       | 8       |
| 10   |          | 67      | 3960      |   | 89 54 40               | 9.07                   |              | +2.1                       | 55.8      |     |          |   |       | 9       |
| 11   |          |         | ✓         |   | 270 06 00              | 9.07                   |              |                            |           |     |          |   |       | 10      |
| 12   |          | 68      | 2690      |   | 89 51 20               | 9.0                    |              | -2.2                       |           |     |          | 53.6  |       | 11      |
| 13   |          | 69      | 1320      |   | 89 54 00               | 9.0                    |              | -6.7                       |           |     |          | 49.1  |       | 12      |
| 14   |          | 70      | 0         |   | 90 —                   | 5.0                    |              | -5.0                       |           |     |          | 50.8  |       | 13      |
| 15   |          | 71      | 1370      |   | 89 50 00               | 9.0                    |              | -5.1                       |           |     |          | 50.7  |       | 14      |
| 16   |          | 72      | 2640      |   | 89 52 10               | 9.0                    |              | -2.8                       |           |     |          | 53.0  |       | 15      |
| 17   |          |         |           |   |                        |                        |              |                            |           |     |          |   |       | 16      |
|      |          |         |           |   |                        |                        |              |                            |           |     |          |   |       | 17      |

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= FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 175 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY APR DATE 9 DY 2 MO 79 YR  
 SURVEYOR T. SHELLILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION | VERTICAL |   |                     |               |           |                      | HORIZONTAL |      | REMARKS |           |                               |
|------|----------|---------|----------|---|---------------------|---------------|-----------|----------------------|------------|------|---------|-----------|-------------------------------|
|      |          |         | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | ELEVATION  |      |         | LR OR DIR | RIGHT TURNED HORIZONTAL ANGLE |
|      |          |         |          | SLOPE   |                     |               |           |                      | HORIZ.     | INST |         |           |                               |
| 1    |          |         |          |   |                     |               |           | 55.8                 |            |      |         | 1         |                               |
| 2    | 0        | 73      | 3960     |   | 89 53 50            | 9.0           | -1.3      |                      | 54.5       |      |         | 2         |                               |
| 3    | 0        |         | ✓        |   | 270 06 40           | 9.0           |           |                      |            |      |         | 3         |                               |
| 4    |          |         |          |   |                     |               |           |                      |            |      |         | 4         |                               |
| 5    | Δ        | 73      | 3960     |   | 89 50 00            | 9.0           | -3.2      | 51.7                 |            |      |         | 5         |                               |
| 6    | Δ        |         | ✓        |   | 270 10 40           | 9.0           |           |                      |            |      |         | 6         |                               |
| 7    |          | 74      | 2640     |   | 89 47 20            | 9.0           | 10.9      |                      | 52.6       |      |         | 7         |                               |
| 8    |          | 75      | 1320     |   | 89 41 10            | 9.0           | -1.7      |                      | 50.0       |      |         | 8         |                               |
| 9    | ⊗        | 76      | 0        |   | 90 —                | 5.0           | -5.0      |                      | 46.7       |      |         | 9         |                               |
| 10   |          | 77      | 1320     |   | 89 52 50            | 9.0           | -6.2      |                      | 45.5       |      |         | 10        |                               |
| 11   | 0        | 78      | 2640     |   | 89 51 00            | 9.0           | -1.7      |                      | 50.0       |      |         | 11        |                               |
| 12   | 0        |         | ✓        |   | 270 09 40           | 9.0           |           |                      |            |      |         | 12        |                               |
| 13   |          |         |          |   |                     |               |           |                      |            |      |         | 13        |                               |
| 14   | Δ        | 78      | 2806     |   | 89 40 40            | 9.0           | -7.5      | 42.8                 |            |      |         | 14        |                               |
| 15   | Δ        |         | ✓        |   | 270 13 50           | 9.0           |           |                      |            |      |         | 15        |                               |
| 16   |          | 79      | 1546     |   | 89 46 40            | 9.0           | -3.0      |                      | 39.8       |      |         | 16        |                               |
| 17   |          | 80      | 226      |   | 90 —                | 5.0           | -5.0      |                      | 37.8       |      |         | 17        |                               |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 176 OF 176  
 LINE/LOOP NO. 612 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY NPE DATE 9 DY 2 MO 29 YR  
 SURVEYOR T. SHERLINE INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

| LINE | <br><br> | STATION   | VERTICAL |  |                     |               |           |                      | HORIZONTAL |              | REMARKS |                               |
|------|----------|-----------|----------|--|---------------------|---------------|-----------|----------------------|------------|--------------|---------|-------------------------------|
|      |          |           | DISTANCE | <input type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | ELEVATION  |              |         | RIGHT TURNED HORIZONTAL ANGLE |
|      |          |           |          | SLOPE  |                     |               |           |                      | HORIZ      | INST         |         |                               |
| 1    |          |           |          |  |                     |               |           |                      | 42.8       |              |         |                               |
| 2    |          | 80 + 226  | 0        |  | 90                  | 5.0           | -5.0      |                      | 37.8       |              |         |                               |
| 3    |          | 79081     | 1810     |  | 89 36 20            | 1.07          | +11.7     |                      | 54.5       | 79081 - BARL |         |                               |
| 4    |          |           | ✓        |  | 270 24 10           | 1.07          |           |                      | 52.4       | 79081 - 1182 |         |                               |
| 5    |          |           |          |  |                     |               |           |                      | ± 2.1      | MISTAKE      |         |                               |
| 6    |          |           |          |  |                     |               |           |                      |            |              |         |                               |
| 7    |          |           |          |  |                     |               |           |                      |            |              |         |                               |
| 8    |          |           |          |  |                     |               |           |                      | 54.5       | 79081        |         |                               |
| 9    |          | 79081     | 1810     |  | 89 36 20            | 1.07          | -11.7     | 42.9                 |            |              |         |                               |
| 10   |          |           | ✓        |  | 270 24 10           | 1.07          |           |                      |            |              |         |                               |
| 11   |          | 80 + 226  | 0        |  | 90                  | 5.0           | -5.0      |                      | 37.9       |              |         |                               |
| 12   |          | 80 + 1155 | 929      |  | 89 15 50            | 9.07          | +3.0      |                      | 45.9       |              |         |                               |
| 13   |          |           | ✓        |  | 270 44 50           | 9.07          |           |                      |            |              |         |                               |
| 14   |          |           |          |  |                     |               |           |                      |            |              |         |                               |
| 15   |          | 80 + 1155 | 2805     |  | 90 03 30            | 0.67          | +9.2      | 55.2                 |            |              |         |                               |
| 16   |          |           | ✓        |  | 269 56 40           | 0.67          |           |                      |            |              |         |                               |
| 17   |          | 81        | 2640     |  | 90 16 00            | 0.67          | -18.7     |                      | 36.5       |              |         |                               |

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 P-173  
 (56.51)

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 177 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HASKY NPR DATE 10 DY 2 MO 19 YR  
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION | VERTICAL  |   |                     |               |           |                      | ELEVATION |      | L/R OR D/I | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |
|------|----------|---------|-----------|---|---------------------|---------------|-----------|----------------------|-----------|------|------------|-------------------------------|------|---------|
|      |          |         | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD  |            |                               |      |         |
|      |          |         | SLOPE<br> | HORIZ<br>   |                     |               |           |                      |           |      |            |                               |      |         |
| 1    |          |         |           |   |                     |               |           |                      | 55.2      |      |            | 1                             |      |         |
| 2    |          | S.P. 82 | 1320      |   |                     | 90 11 00      | 66        | -10.8                |           | 44.4 |            | 2                             |      |         |
| 3    |          | 83      | 0         |   |                     | 90 —          | 50        | -5.0                 |           | 50.2 |            | 3                             |      |         |
| 4    |          | 84      | 1320      |   |                     | 89 39 40      | 66        | +1.2                 |           | 56.4 |            | 4                             |      |         |
| 5    |          | 85      | 2640      |   |                     | 89 46 30      | 66.7      | +4.0                 |           | 59.2 |            | 5                             |      |         |
| 6    |          |         | ✓         |   |                     | 270 13 50     | 66.7      |                      |           |      |            | 6                             |      |         |
| 7    |          |         |           |   |                     |               |           |                      |           |      |            | 7                             |      |         |
| 8    |          | 85      | 2640      |   |                     | 89 56 00      | 66.7      | +3.3                 | 62.6      |      |            | 8                             |      |         |
| 9    |          |         | ✓         |   |                     | 270 04 10     | 66.7      |                      |           |      |            | 9                             |      |         |
| 10   |          | 86      | 1320      |   |                     | 89 41 50      | 66        | +0.4                 |           | 63.0 |            | 10                            |      |         |
| 11   |          | 87      | 0         |   |                     | 90 —          | 50        | -5.0                 |           | 57.6 |            | 11                            |      |         |
| 12   |          | 88      | 1320      |   |                     | 89 53 10      | 66        | -3.9                 |           | 58.7 |            | 12                            |      |         |
| 13   |          | 89      | 2640      |   |                     | 89 55 00      | 66.7      | -2.6                 |           | 60.0 |            | 13                            |      |         |
| 14   |          |         | ✓         |   |                     | 270 05 10     | 66.7      |                      |           |      |            | 14                            |      |         |
| 15   |          |         |           |   |                     |               |           |                      |           |      |            | 15                            |      |         |
| 16   |          | 89      | 2640      |   |                     | 89 56 50      | 66.7      | +4.0                 | 64.0      |      |            | 16                            |      |         |
| 17   |          |         | ✓         |   |                     | 270 03 10     | 66.7      |                      |           |      |            | 17                            |      |         |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 178 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT WASKY APR DATE 10 DY 2 MO 79 YR  
 SURVEYOR T. SHELDON INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br>SS | STATION | VERTICAL |       |                     |               |           | ELEVATION            |      | HORIZONTAL |            | REMARKS |                               |
|------|--------|---------|----------|-------|---------------------|---------------|-----------|----------------------|------|------------|------------|---------|-------------------------------|
|      |        |         | DISTANCE |       | VERTICAL ANGLE OBS. | ROD ROD OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST | ROD        | L/R OR D/I |         | RIGHT TURNED HORIZONTAL ANGLE |
|      |        |         | SLOPE    | HORIZ |                     |               |           |                      |      |            |            |         |                               |
| 1    |        |         |          |       |                     |               |           | 64.0                 |      |            |            | 1       |                               |
| 2    |        | SP 90   | 1320     |       | 89 48 10            | 6.6           |           | -2.0                 |      | 62.0       |            |         | 2                             |
| 3    |        | 91      | 0        |       | 90 —                | 5.0           |           | -5.0                 |      | 59.0       |            |         | 3                             |
| 4    |        | 92      | 1320     |       | 89 57 30            | 6.6           |           | -5.6                 |      | 58.4       |            |         | 4                             |
| 5    |        | 93      | 2640     |       | 89 57 50            | 6.6?          |           | -4.7                 |      | 59.3       |            |         | 5                             |
| 6    |        |         | ✓        |       | 270 02 20           | 6.6           |           |                      |      |            |            |         | 6                             |
| 7    |        |         |          |       |                     |               |           |                      |      |            |            |         | 7                             |
| 8    |        | 93      | 2640     |       | 89 58 40            | 6.6?          |           | +5.4                 |      | 64.7       |            |         | 8                             |
| 9    |        |         | ✓        |       | 270 01 20           | 6.6           |           |                      |      |            |            |         | 9                             |
| 10   |        | 94      | 1320     |       | 89 56 10            | 6.6           |           | -5.1                 |      | 59.6       |            |         | 10                            |
| 11   |        | 95      | 0        |       | 90 —                | 5.0           |           | -5.0                 |      | 59.7       |            |         | 11                            |
| 12   |        | 96      | 1320     |       | 89 49 10            | 6.6           |           | -2.4                 |      | 62.3       |            |         | 12                            |
| 13   |        | 97      | 2640     |       | 89 54 00            | 6.6?          |           | -1.7                 |      | 63.0       |            |         | 13                            |
| 14   |        |         | ✓        |       | 270 06 20           | 6.6           |           |                      |      |            |            |         | 14                            |
| 15   |        |         |          |       |                     |               |           |                      |      |            |            |         | 15                            |
| 16   |        | 97      | 4076     |       | 90 10 00            | 6.6?          |           | +18.0                |      | 81.0       |            |         | 16                            |
| 17   |        |         | ✓        |       | 269 50 10           | 6.6?          |           |                      |      |            |            |         | 17                            |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 179 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NAR DATE 10 DY 2 MO 79 YR  
 SURVEYOR T. SHELLILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br>SS | STATION   | VERTICAL |  |                     |               |           |                      | ELEVATION |     | LIR OR D/I | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS      |  |        |
|------|--------|-----------|----------|--|---------------------|---------------|-----------|----------------------|-----------|-----|------------|-------------------------------|------|--------------|--|--------|
|      |        |           | DISTANCE | <input type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD |            |                               |      |              |  |        |
|      |        |           | SLOPE    | HORIZ  |                     |               |           |                      |           |     |            |                               |      |              |  |        |
| 1    |        |           |          |  |                     |               |           |                      |           |     |            |                               |      |              |  |        |
| 2    |        | S.P. 98   | 2756     |  |                     | 90 13 40      | 6.6       |                      | -17.4     |     | 81.0       |                               |      |              |  |        |
| 3    |        | 99        | 1436     |  |                     | 90 20 40      | 6.6       |                      | -15.2     |     |            |                               |      |              |  |        |
| 4    |        | 100       | 116      |  |                     | 88 52 10      | 6.6       |                      | -4.3      |     |            |                               |      |              |  |        |
| 5    |        | 100 + 116 | 0        |  |                     | 90 —          | 5.0       |                      | -5.0      |     |            |                               |      |              |  |        |
| 6    |        | 79082     | 2020     |  |                     | 90 —          | 7.8       |                      | -7.6      |     |            |                               |      | 79082 - 8ARR |  |        |
| 7    |        |           | ✓        |  |                     | 270 —         | 7.6       |                      |           |     |            |                               |      | 79082 - 1182 |  | (7343) |
| 8    |        |           |          |  |                     |               |           |                      |           |     |            |                               |      | 148726       |  |        |
| 9    |        |           |          |  |                     |               |           |                      |           |     |            |                               |      |              |  |        |
| 10   |        |           |          |  |                     |               |           |                      |           |     |            |                               |      |              |  |        |
| 11   |        |           |          |  |                     |               |           |                      |           |     |            |                               |      |              |  |        |
| 12   |        | 79082     | 2020     |  |                     | 90 —          | 7.8       |                      | +7.6      |     | 81.2       |                               |      | 79082        |  |        |
| 13   |        |           | ✓        |  |                     | 270 —         | 7.6       |                      |           |     |            |                               |      |              |  |        |
| 14   |        | 100 + 116 | 0        |  |                     | 90 —          | 5.0       |                      | -5.0      |     |            |                               |      |              |  |        |
| 15   |        | 101       | 1204     |  |                     | 90 00 00      | 6.6       |                      | -6.6      |     |            |                               |      |              |  |        |
| 16   |        | 102       | 2624     |  |                     | 90 11 50      | 6.6       |                      | -15.2     |     |            |                               |      |              |  |        |
| 17   |        |           |          |  |                     |               |           |                      |           |     |            |                               |      |              |  |        |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 180 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT Husky NPR DATE 10 DY 2 MO 79 YR  
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br>SS<br> | STATION  | VERTICAL |  |                     |               |           |                      | ELEVATION |     | HORIZONTAL |                               | REMARKS |  |
|------|------------|----------|----------|--|---------------------|---------------|-----------|----------------------|-----------|-----|------------|-------------------------------|---------|--|
|      |            |          | DISTANCE | <input type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD | LR OR DR   | RIGHT TURNED HORIZONTAL ANGLE |         |  |
|      |            |          |          |  |                     |               |           |                      |           |     |            |                               |         |  |
| 1    |            |          |          |  |                     |               |           |                      |           |     |            |                               | 1       |  |
| 2    |            | S.P. 103 | 3844     |  | 90 07 20            | 6.67          | -14.3     |                      | 66.9      |     |            |                               | 2       |  |
| 3    |            |          | ✓        |  | 269 53 00           | 6.67          |           |                      |           |     |            |                               | 3       |  |
| 4    |            |          |          |  |                     |               |           |                      |           |     |            |                               | 4       |  |
| 5    |            | 103      | 2640     |  | 90 02 20            | 6.67          | +8.2      | 75.2                 |           |     |            |                               | 5       |  |
| 6    |            |          | ✓        |  | 269 57 58           | 6.67          |           |                      |           |     |            |                               | 6       |  |
| 7    |            | 104      | 1320     |  | 90 05 20            | 6.6           | -8.6      |                      | 66.6      |     |            |                               | 7       |  |
| 8    |            | 105      | 0        |  | 90 —                | 5.0           | -5.0      |                      | 70.2      |     |            |                               | 8       |  |
| 9    |            | 106      | 1320     |  | 89 52 40            | 6.6           | -3.7      |                      | 71.5      |     |            |                               | 9       |  |
| 10   |            | 107      | 2640     |  | 89 42 40            | 6.67          | +6.9      |                      | 82.1      |     |            |                               | 10      |  |
| 11   |            |          | ✓        |  | 270 17 20           | 6.67          |           |                      |           |     |            |                               | 11      |  |
| 12   |            |          |          |  |                     |               |           |                      |           |     |            |                               | 12      |  |
| 13   |            | 107      | 2640     |  | 89 50 00            | 6.67          | -1.3      | 81.0                 |           |     |            |                               | 13      |  |
| 14   |            |          | ✓        |  | 270 10 10           | 6.67          |           |                      |           |     |            |                               | 14      |  |
| 15   |            | 108      | 1320     |  | 89 46 30            | 6.6           | -1.4      |                      | 79.6      |     |            |                               | 15      |  |
| 16   |            | 109      | 0        |  | 90 —                | 5.0           | -5.0      |                      | 76.0      |     |            |                               | 16      |  |
| 17   |            | 110      | 1320     |  | 90 38 10            | 6.6           | -21.2     |                      | 59.8      |     |            |                               | 17      |  |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 181 OF 181  
 LINE/LOOP NO. 612 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKY NIP DATE 10 DY 2 MO 79 YR  
 SURVEYOR T. SHERKILL INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

| LINE | <br><small>SS</small> | STATION   | VERTICAL  |  |                     |               |           |                      | HORIZONTAL |      | REMARKS |            |                               |              |
|------|-----------------------|-----------|-----------|--|---------------------|---------------|-----------|----------------------|------------|------|---------|------------|-------------------------------|--------------|
|      |                       |           | DISTANCE  | <input type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | ELEVATION  |      |         | L/R OR D/I | RIGHT TURNED HORIZONTAL ANGLE |              |
|      |                       |           | SLOPE<br> | HORIZ  |                     |               |           |                      | INST       | ROD  |         |            |                               |              |
| 1    |                       |           |           |  |                     |               |           |                      |            |      |         |            | 1                             |              |
| 2    |                       | S.P. 111  | 26.40     |  | 89 57 50            | 6.67          | -4.7      |                      | 81.0       | 76.3 |         |            | 2                             |              |
| 3    |                       |           | ✓         |  | 270 02 30           | 6.65          |           |                      |            |      |         |            | 3                             |              |
| 4    |                       |           |           |  |                     |               |           |                      |            |      |         |            | 4                             |              |
| 5    |                       | 111       | 26.60     |  | 89 50 00            | 6.67          | -1.2      |                      | 75.3       |      |         |            | 5                             |              |
| 6    |                       |           | ✓         |  | 270 10 00           | 6.65          |           |                      |            |      |         |            | 6                             |              |
| 7    |                       | 112       | 1320      |  | 89 56 10            | 6.6           | -5.1      |                      |            | 70.2 |         |            | 7                             |              |
| 8    |                       | 113       | 0         |  | 90 —                | 5.0           | -5.0      |                      |            | 70.3 |         |            | 8                             |              |
| 9    |                       | 114       | 1320      |  | 89 54 10            | 6.6           | -4.3      |                      |            | 71.0 |         |            | 9                             |              |
| 10   |                       | 115       | 26.40     |  | 89 51 00            | 6.67          | +0.6      |                      |            | 75.9 |         |            | 10                            |              |
| 11   |                       |           | ✓         |  | 270 09 30           | 6.6           |           |                      |            |      |         |            | 11                            |              |
| 12   |                       |           |           |  |                     |               |           |                      |            |      |         |            | 12                            |              |
| 13   |                       | 115       | 21.50     |  | 90 05 30            | 6.67          | +9.9      |                      | 85.8       |      |         |            | 13                            |              |
| 14   |                       |           | ✓         |  | 269 54 40           | 6.6           |           |                      |            |      |         |            | 14                            |              |
| 15   |                       | 116       | 830       |  | 89 50 10            | 6.6           | -4.2      |                      |            | 81.6 |         |            | 15                            | (80.81)      |
| 16   |                       | 116 + 830 | 0         |  | 90 —                | 5.0           | -5.0      |                      |            | 80.8 |         |            | 16                            |              |
| 17   |                       | = 79083   | 0         |  | 90 —                | 5.0           | -5.0      |                      |            | 80.8 |         |            | 17                            | 79083 - BALL |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 182 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT WUSKEY N/AK DATE 11 DY 2 MO 79 YR  
 SURVEYOR T. S. HEDDLE INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE |          | STATION     | VERTICAL  |  |                        |                        |              |                            | ELEVATION |      | L/R OR D/I | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |
|------|----------|-------------|-----------|--|------------------------|------------------------|--------------|----------------------------|-----------|------|------------|---|------|---------|
|      |          |             | DISTANCE  | <input type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST      | ROD  |            |   |      |         |
|      |          |             | SLOPE<br> | HORIZ<br>  |                        |                        |              |                            |           |      |            |   |      |         |
| 1    |          |             |           |  |                        |                        |              |                            |           |      |            |   |      |         |
| 2    | $\Delta$ | 79083       | 0         |  |                        | 5.0                    |              | +5.0                       | 85.5      | 80.8 |            | 79083   | 1    |         |
| 3    | $\Delta$ | = 116 + 830 | 0         |  |                        | 5.0                    |              |                            |           |      |            |   | 2    |         |
| 4    | $\pi$    | 116 + 830   | 0         |  |                        | 5.0                    |              | -5.0                       |           | 80.5 |            |   | 3    |         |
| 5    |          | 117         | 490       |  |                        | 90 06 10               | 6.6          | -7.5                       |           | 78.0 |            |   | 4    |         |
| 6    |          | 118         | 18 10     |  |                        | 90 19 30               | 6.6          | -16.8                      |           | 68.7 |            |   | 5    |         |
| 7    | $\odot$  | 119         | 31 30     |  |                        | 90 25 30               | 6.67         | <del>22.5</del><br>-22.5   |           | 56.0 |            |   | 6    |         |
| 8    | $\odot$  |             | ✓         |  |                        | 269 34 40              | 6.65         |                            |           |      |            |   | 7    |         |
| 9    |          |             |           |  |                        |                        |              |                            |           |      |            |   | 8    |         |
| 10   | $\Delta$ | 119         | 26 40     |  |                        | 89 28 10               | 6.02         | -10.9                      | 44.9      |      |            |   | 9    |         |
| 11   | $\Delta$ |             | ✓         |  |                        | 270 21 50              | 6.0          |                            |           |      |            |   | 10   |         |
| 12   |          | 120         | 13 20     |  |                        | 90 16 10               | 15.0         | -21.2                      |           | 23.7 |            |   | 11   |         |
| 13   | $\pi$    | 121         | 0         |  |                        | 90 —                   | 5.0          | -5.0                       |           | 39.9 |            |   | 12   |         |
| 14   |          | 122         | 13 20     |  |                        | 89 52 10               | 6.0          | -3.0                       |           | 41.9 |            |   | 13   |         |
| 15   | $\odot$  | 123         | 26 40     |  |                        | 89 44 40               | 15.0         | -3.0                       |           | 41.9 |            |   | 14   |         |
| 16   | $\odot$  |             | ✓         |  |                        | 270 15 40              | 15.0         |                            |           |      |            |   | 15   |         |
| 17   |          |             |           |  |                        |                        |              |                            |           |      |            |   | 16   |         |

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SYMBOLS  $\Delta$  = BACKSIGHT  $\pi$  = INSTRUMENT SET-UP  $\odot$  = FORESIGHT SS = SIDESHOT



# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 183 OF 183  
 LINE/LOOP NO. 612 TYPE SURVEY \_\_\_\_\_ CLIENT HUSKEY APC DATE 11 DY 2 MO 79 YR  
 SURVEYOR T. SHERWIN INSTRUMENT DESC/SERIAL NO. \_\_\_\_\_ CREW NO. 1182

| LINE | <br><br> | STATION    | VERTICAL |   |                     |               |           |                      | HORIZONTAL |      | REMARKS |          |                               |
|------|----------|------------|----------|---|---------------------|---------------|-----------|----------------------|------------|------|---------|----------|-------------------------------|
|      |          |            | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | ELEVATION  |      |         | LR OR DR | RIGHT TURNED HORIZONTAL ANGLE |
|      |          |            |          | SLOPE   |                     |               |           |                      | HORIZ      | INST |         |          |                               |
| 1    |          |            |          |   |                     |               |           |                      | 41.9       |      |         | 1        |                               |
| 2    | $\Delta$ | 123        | 26.40    |   | 89 50 50            | 15.0          | +7.6      | 49.3                 |            |      |         | 2        |                               |
| 3    | $\Delta$ |            |          |   | 270 09 50           | 15.0          |           |                      |            |      |         | 3        |                               |
| 4    |          | 124        | 13.20    |   | 90 — 5.0            |               | -5.0      |                      | 44.3       |      |         | 4        |                               |
| 5    | $\nabla$ | 125        | 0        |   | 90 — 5.0            |               | -5.0      |                      | 44.3       |      |         | 5        |                               |
| 6    |          | 126        | 13.20    |   | 90 — 1.7            |               | -1.7      |                      | 47.6       |      |         | 6        |                               |
| 7    | $\odot$  | 126 + 1155 | 24.75    |   | 89 32 70            | 15.0          | +5.3      |                      | 54.6       |      |         | 7        |                               |
| 8    | $\odot$  |            |          |   | 270 28 30           | 15.0          |           |                      |            |      |         | 8        |                               |
| 9    |          |            |          |   |                     |               |           |                      |            |      |         | 9        |                               |
| 10   | $\Delta$ | 126 + 1155 | 28.05    |   | 90 06 50            | 15.0          | +20.1     | 74.5                 |            |      |         | 10       |                               |
| 11   | $\Delta$ |            |          |   | 269 53 50           | 15.0          |           |                      |            |      |         | 11       |                               |
| 12   |          | 127        | 26.40    |   | 769 32 40           | 15.0          | -36.1     |                      | 38.4       |      |         | 12       |                               |
| 13   |          | 128        | 13.20    |   | 90 10 10            | 15.0          | -18.9     |                      | 55.6       |      |         | 13       |                               |
| 14   | $\nabla$ | 129        | 0        |   | 90 — 5.0            |               | -5.0      |                      | 69.5       |      |         | 14       |                               |
| 15   |          | 130        | 13.20    |   | 90 — 12.0           |               | -12.0     |                      | 62.5       |      |         | 15       |                               |
| 16   | $\odot$  | 131        | 26.40    |   | 90 — 12.8           |               | -12.4     |                      | 62.1       |      |         | 16       |                               |
| 17   | $\odot$  |            |          |   | 270 — 12.2          |               |           |                      |            |      |         | 17       |                               |

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SYMBOLS  $\Delta$  = BACKSIGHT  $\nabla$  = INSTRUMENT SET-UP SS = SIDESHOT  $\odot$  = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

21

GSI AREA Ballow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 184 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT Huskey N/A DATE 12 DY 2 MO 79 YR  
 SURVEYOR T. SHERLICK INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br> | STATION    | VERTICAL  |   |                        |                        |              |                            | ELEVATION  |     | L/R OR D/I | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE   | REMARKS |
|------|------|------------|-----------|---|------------------------|------------------------|--------------|----------------------------|------------|-----|------------|---|--------|---------|
|      |      |            | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST       | ROD |            |   |        |         |
|      |      |            | SLOPE<br> | HORIZ<br>   |                        |                        |              |                            |            |     |            |   |        |         |
| 1    |      |            |           |   |                        |                        |              |                            | 62.1       |     |            | 1   |        |         |
| 2    |      | s.p. 131   | 26.40     |   | 90                     | 5.7                    | +5.3         | 65.0                       |            |     |            | 2   |        |         |
| 3    |      |            |           |   | 270                    | 5.1                    |              |                            |            |     |            | 3   |        |         |
| 4    |      | 132        | 13.20     |   | 90                     | 5.9                    | -5.9         |                            | 59.1       |     |            | 4   |        |         |
| 5    |      | 133        | 0         |   | 90                     | 5.0                    | -5.0         |                            | 60.0       |     |            | 5   |        |         |
| 6    |      | 134        | 13.20     |   | 90                     | 12.4                   | -12.4        |                            | 52.6       |     |            | 6   |        |         |
| 7    |      | 135        | 26.40     |   | 90                     | 12.2                   | -12.1        |                            | 59.9, 52.9 |     |            | 7   |        |         |
| 8    |      | 135 + 1277 | 391.7     |   | 89                     | 54.50                  | 15.0         | -8.4                       | 58.6       |     | 79084-BALL | 8   |        |         |
| 9    |      | 79084      |           |   | 270                    | 05.50                  | 15.0         |                            | 59.9       |     | 79084-1182 | 9   | (5859) |         |
| 10   |      |            |           |   |                        |                        |              |                            |            |     | MISDLE     | 10  |        |         |
| 11   |      |            |           |   |                        |                        |              |                            | ±1.3       |     |            | 11  |        |         |
| 12   |      |            |           |   |                        |                        |              |                            |            |     |            | 12  |        |         |
| 13   |      |            |           |   |                        |                        |              |                            | 58.6       |     | 79084      | 13  |        |         |
| 14   |      | 79084      | 26.83     |   | 90                     | 01.40                  | 15.0         | +15.8                      | 74.2       |     |            | 14  |        |         |
| 15   |      | 135 + 1277 |           |   | 269                    | 59.10                  | 15.0         |                            |            |     |            | 15  |        |         |
| 16   |      | 136        | 26.40     |   | 90                     | 02.50                  | 15.0         | -17.0                      | 57.2       |     |            | 16  |        |         |
| 17   |      | 137        | 13.20     |   | 90                     | 03.10                  | 15.0         | -16.2                      | 58.0       |     |            | 17  |        |         |

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 SS = SIDESHOT   
 = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 185 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NPR DATE 12 DY 2 MO 79 YR  
 SURVEYOR T. SHEROILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION  | VERTICAL  |  |                     |               |           | ELEVATION            |      | LIR OR D/I | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |     |
|------|----------|----------|-----------|--|---------------------|---------------|-----------|----------------------|------|------------|-------------------------------|------|---------|-----|
|      |          |          | DISTANCE  | <input type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST |            |                               |      |         | ROD |
|      |          |          | SLOPE<br> | HORIZ<br>  |                     |               |           |                      |      |            |                               |      |         |     |
| 1    |          |          |           |  |                     |               |           |                      |      |            |                               |      |         |     |
| 2    |          | S.P. 138 | 0         |  | 90                  | 5.0           | -5.0      | 74.2                 |      |            |                               |      |         |     |
| 3    |          | 139      | 1320      |  | 90                  | 12.8          | -12.8     |                      |      |            |                               |      |         |     |
| 4    |          | 140      | 2640      |  | 90                  | 8.3           | -8.2      |                      |      |            |                               |      |         |     |
| 5    |          | 141      | 3960      |  | 89 55 50            | 15.0          | -9.3      |                      |      |            |                               |      |         |     |
| 6    |          |          | ✓         |  | 270 05 10           | 15.0          |           |                      |      |            |                               |      |         |     |
| 7    |          |          |           |  |                     |               |           |                      |      |            |                               |      |         |     |
| 8    |          | 141      | 3960      |  | 89 54 00            | 15.0          | +7.3      | 72.0                 |      |            |                               |      |         |     |
| 9    |          |          | ✓         |  | 270 06 50           | 15.0          |           |                      |      |            |                               |      |         |     |
| 10   |          | 142      | 2640      |  | 90                  | 6.0           | -5.9      |                      |      |            |                               |      |         |     |
| 11   |          | 143      | 1320      |  | 90                  | 8.9           | -8.9      |                      |      |            |                               |      |         |     |
| 12   |          | 144      | 0         |  | 90                  | 5.0           | -5.0      |                      |      |            |                               |      |         |     |
| 13   |          | 145      | 1320      |  | 90                  | 3.2           | -3.2      |                      |      |            |                               |      |         |     |
| 14   |          | 146      | 2640      |  | 90                  | 2.9           | -2.8      |                      |      |            |                               |      |         |     |
| 15   |          | 147      | 3960      |  | 89 48 20            | 15.0          | -0.7      |                      |      |            |                               |      |         |     |
| 16   |          |          | ✓         |  | 270 12 40           | 15.0          |           |                      |      |            |                               |      |         |     |
| 17   |          |          |           |  |                     |               |           |                      |      |            |                               |      |         |     |

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 = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 18 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT WASLEY MR DATE 12 DY 2 MO 79 YR  
 SURVEYOR T. SHERILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <input type="checkbox"/> $\Delta$<br><input type="checkbox"/> SS<br><input type="checkbox"/> $\odot$ | STATION  | VERTICAL  |   |                        |                        |              |                            | ELEVATION |           | L/R OR DI  | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |
|------|--|----------|-----------|---|------------------------|------------------------|--------------|----------------------------|-----------|-----------|------------|---|------|---------|
|      |  |          | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST      | ROD       |            |   |      |         |
|      |  |          | SLOPE<br> | HORIZ<br>   |                        |                        |              |                            |           |           |            |   |      |         |
| 1    |  |          |           |   |                        |                        |              |                            |           |           |            | 1   |      |         |
| 2    | $\Delta$   | 147      | 3960      |   |                        | 89 56 30               | 15.0         |                            | +10.1     | 81.1      |            |   | 2    |         |
| 3    | $\Delta$   |          |           |   |                        | 270 04 30              | 15.0         |                            |           |           |            |   | 3    |         |
| 4    |  | 148      | 7640      |   |                        | 90 —                   | 8.9          |                            | -8.8      | 72.3      |            |   | 4    |         |
| 5    |  | 149      | 1320      |   |                        | 90 —                   | 9.6          |                            | -9.6      | 71.5      |            |   | 5    |         |
| 6    | $\nabla$   | 150      | 0         |   |                        | 90 —                   | 5.0          |                            | -5.0      | 76.1      |            |   | 6    |         |
| 7    |  | 151      | 1320      |   |                        | 89 16 40               | 15.0         |                            | +1.7      | 82.8      |            |   | 7    |         |
| 8    |  | 152      | 2640      |   |                        | 89 33 20               | 15.0         |                            | +5.6      | 86.7      |            |   | 8    |         |
| 9    | $\odot$  | 79085    | 3840      |   |                        | 89 39 00               | 15.0         |                            | +9.3      | 90.4      | 79085-BANK |   | 9    | (90.38) |
| 10   | $\odot$  | 752+1206 |           |   |                        | 270 21 50              | 15.0         |                            |           | 91.1      | 79085-1182 |   | 10   |         |
| 11   |  |          |           |   |                        |                        |              |                            |           | $\pm 0.7$ | MISTAKE    |   | 11   |         |
| 12   |  |          |           |   |                        |                        |              |                            |           |           |            |   | 12   |         |
| 13   |  |          |           |   |                        |                        |              |                            |           |           |            |   | 13   |         |
| 14   |  |          |           |   |                        |                        |              |                            |           | 90.4      | 79085      |   | 14   |         |
| 15   | $\Delta$   | 79085    | 2754      |   |                        | 89 37 10               | 15.0         |                            | -3.8      | 86.6      |            |   | 15   |         |
| 16   | $\Delta$   | 752+1206 |           |   |                        | 270 23 40              | 15.0         |                            |           |           |            |   | 16   |         |
| 17   |  | 153      | 2640      |   |                        | 89 37 30               | 15.0         |                            | +2.4      | 89.0      |            |   | 17   |         |

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 SYMBOLS  $\Delta$  = BACKSIGHT  $\nabla$  = INSTRUMENT SET-UP SS = SIDESHOT  $\odot$  = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

24

GSI AREA BALLOU STATE/COUNTY ALASKA BOOK NO. 1 PAGE 187 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NPR DATE 12 DY 2 MO 79 YR  
 SURVEYOR T. SHALINE INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION  | VERTICAL  |   |                     |               |           |                      | ELEVATION |     | L/R OR D/I | HORIZONTAL                    |      | REMARKS |
|------|----------|----------|-----------|---|---------------------|---------------|-----------|----------------------|-----------|-----|------------|-------------------------------|------|---------|
|      |          |          | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD |            | RIGHT TURNED HORIZONTAL ANGLE | LINE |         |
|      |          |          | SLOPE<br> | HORIZ<br>   |                     |               |           |                      |           |     |            |                               |      |         |
| 1    |          |          |           |   |                     |               |           |                      | 86.6      |     |            |                               | 1    |         |
| 2    |          | S.P. 154 | 1320      |   | 89 51 40            | 1.0           | +2.2      |                      | 88.8      |     |            |                               | 2    |         |
| 3    |          | 155      | 0         |   | 90 —                | 5.0           | -5.0      |                      | 81.6      |     |            |                               | 3    |         |
| 4    |          | 156      | 1320      |   | 89 50 00            | 2.0           | +1.9      |                      | 88.5      |     |            |                               | 4    |         |
| 5    |          | 157      | 2640      |   | 89 44 40            | 15.0          | -2.6      |                      | 84.0      |     |            |                               | 5    |         |
| 6    |          |          | ✓         |   | 270 16 30           | 15.0          |           |                      |           |     |            |                               | 6    |         |
| 7    |          |          |           |   |                     |               |           |                      |           |     |            |                               | 7    |         |
| 8    |          | 157      | 2640      |   | 89 57 30            | 9.0           | +6.9      |                      | 91.0      |     |            |                               | 8    |         |
| 9    |          |          | ✓         |   | 270 02 30           | 9.0           |           |                      |           |     |            |                               | 9    |         |
| 10   |          | 158      | 1320      |   | 89 53 30            | 9.0           | -6.5      |                      | 84.5      |     |            |                               | 10   |         |
| 11   |          | 159      | 0         |   | 90 —                | 5.0           | -5.0      |                      | 86.0      |     |            |                               | 11   |         |
| 12   |          | 160      | 1320      |   | 89 49 10            | 9.0           | -4.8      |                      | 86.2      |     |            |                               | 12   |         |
| 13   |          | 161      | 2640      |   | 89 42 00            | 9.0           | +5.0      |                      | 96.0      |     |            |                               | 13   |         |
| 14   |          |          | ✓         |   | 270 18 10           | 9.0           |           |                      |           |     |            |                               | 14   |         |
| 15   |          |          |           |   |                     |               |           |                      |           |     |            |                               | 15   |         |
| 16   |          | 161      | 3522      |   | 96 01 10            | 9.0           | +9.9      |                      | 105.8     |     |            |                               | 16   |         |
| 17   |          |          | ✓         |   | 269 59 00           | 9.0           |           |                      |           |     |            |                               | 17   |         |

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SYMBOLS

= BACKSIGHT

= INSTRUMENT SET-UP

= SIDESHOT

= FORESIGHT



# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BALFOUR STATE/COUNTY ALASKA BOOK NO. 1 PAGE 188 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKEY NPR DATE 15 DY 2 MO 79 YR  
 SURVEYOR T. SHERILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION   | VERTICAL |   |                     |               |           |                      | ELEVATION |       | L/R OR D/I | HORIZONTAL                    |      | REMARKS |
|------|----------|-----------|----------|---|---------------------|---------------|-----------|----------------------|-----------|-------|------------|-------------------------------|------|---------|
|      |          |           | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD   |            | RIGHT TURNED HORIZONTAL ANGLE | LINE |         |
|      |          |           | SLOPE    | HORIZ   |                     |               |           |                      |           |       |            |                               |      |         |
| 1    |          |           |          |   |                     |               |           |                      |           | 105.8 |            |                               |      | 1       |
| 2    |          | S.P. 162  | 22.02    |   | 90 08 00            | 9.0           |           | -14.0                |           |       | 91.8       |                               |      | 2       |
| 3    |          | 163       | 882      |   | 90 00 00            | 9.0           |           | -9.0                 |           |       | 96.8       |                               |      | 3       |
| 4    |          | 163 + 882 | 0        |   | 90 —                | 5.0           | -5.0      |                      |           |       | 100.8      |                               |      | 4       |
| 5    |          | 164       | 438      |   | 89 41 20            | 9.0           |           | -6.6                 |           |       | 99.2       |                               |      | 5       |
| 6    |          | 165       | 175.8    |   | 90 18 40            | 9.0           |           | -18.5                |           |       | 87.3       |                               |      | 6       |
| 7    |          | 166       | 307.8    |   | 90 08 20            | 9.0           |           | -16.2                |           |       | 89.6       |                               |      | 7       |
| 8    |          |           | ✓        |   | 269 51 50           | 9.0           |           |                      |           |       |            |                               |      | 8       |
| 9    |          |           |          |   |                     |               |           |                      |           |       |            |                               |      | 9       |
| 10   |          | 166       | 2640     |   | 90 25 20            | 9.0           |           | +28.3                |           | 118.0 |            |                               |      | 10      |
| 11   |          |           | ✓        |   | 267 34 40           | 9.0           |           |                      |           |       |            |                               |      | 11      |
| 12   |          | 167       | 1320     |   | 90 23 50            | 9.0           |           | -18.1                |           |       | 99.9       |                               |      | 12      |
| 13   |          | 168       | 0        |   | 90 —                | 5.0           | -5.0      |                      |           |       | 113.0      |                               |      | 13      |
| 14   |          | 169       | 1320     |   | 90 16 50            | 9.0           |           | -15.4                |           |       | 102.6      |                               |      | 14      |
| 15   |          | 170       | 2640     |   | 90 11 30            | 9.0           |           | -17.7                |           |       | 100.3      |                               |      | 15      |
| 16   |          |           | ✓        |   | 269 48 30           | 9.0           |           |                      |           |       |            |                               |      | 16      |
| 17   |          |           |          |   |                     |               |           |                      |           |       |            |                               |      | 17      |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barrow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 189 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NTR DATE 15 DY 2 MO 19 YR  
 SURVEYOR T. SPERDUE INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION  | VERTICAL |   |                     |               |           |                      | ELEVATION |     | LR OR DR | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |
|------|----------|----------|----------|---|---------------------|---------------|-----------|----------------------|-----------|-----|----------|-------------------------------|------|---------|
|      |          |          | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD |          |                               |      |         |
|      |          |          | SLOPE    | HORIZ   |                     |               |           |                      |           |     |          |                               |      |         |
| 1    |          |          |          |   |                     |               |           |                      |           |     |          |                               | 1    |         |
| 2    |          | S.P. 170 | 26.40    |   | 90 09 00            | 9.07          | +15.8     | 116.0                |           |     |          |                               | 2    |         |
| 3    |          |          |          |   | 269 51 00           | 9.07          |           |                      |           |     |          |                               | 3    |         |
| 4    |          | 171      | 1320     |   | 89 57 20            | 9.0           | -7.9      | 108.1                |           |     |          |                               | 4    |         |
| 5    |          | 172      | 0        |   | 90 —                | 5.0           | -5.0      | 111.0                |           |     |          |                               | 5    |         |
| 6    |          | 173      | 1320     |   | 89 40 00            | 9.0           | -1.3      | 114.7                |           |     |          |                               | 6    |         |
| 7    |          | 174      | 26.40    |   | 89 51 50            | 9.07          | -2.5      | 113.5                |           |     |          |                               | 7    |         |
| 8    |          |          |          |   | 270 08 20           | 9.07          |           |                      |           |     |          |                               | 8    |         |
| 9    |          |          |          |   |                     |               |           |                      |           |     |          |                               | 9    |         |
| 10   |          | 174      | 3960     |   | 90 05 20            | 9.07          | +14.7     | 128.3                |           |     |          |                               | 10   |         |
| 11   |          |          |          |   | 269 54 50           | 9.07          |           |                      |           |     |          |                               | 11   |         |
| 12   |          | 175      | 26.40    |   | 90 07 20            | 9.0           | -14.5     | 113.8                |           |     |          |                               | 12   |         |
| 13   |          | 176      | 1320     |   | 90 02 00            | 9.0           | -9.7      | 118.6                |           |     |          |                               | 13   |         |
| 14   |          | 177      | 0        |   | 90 —                | 5.0           | -5.0      | 123.3                |           |     |          |                               | 14   |         |
| 15   |          | 178      | 1320     |   | 90 00 10            | 9.0           | -9.0      | 119.3                |           |     |          |                               | 15   |         |
| 16   |          | 179      | 26.40    |   | 90 02 40            | 9.0           | -10.9     | 117.4                |           |     |          |                               | 16   |         |
| 17   |          |          |          |   |                     |               |           |                      |           |     |          |                               | 17   |         |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA BAlford STATE/COUNTY ALASKA BOOK NO. 1 PAGE 190 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT Husky NTR DATE 15 DY 2 MO 79 YR  
 SURVEYOR T. SPERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION  | VERTICAL |   |                     |               |           |                      | HORIZONTAL |  | REMARKS |            |                               |
|------|----------|----------|----------|---|---------------------|---------------|-----------|----------------------|------------|--|---------|------------|-------------------------------|
|      |          |          | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | ELEVATION  |  |         | L/R OR D/I | RIGHT TURNED HORIZONTAL ANGLE |
|      |          |          | SLOPE    | HORIZ   |                     |               |           | INST                 | ROD        |  |         |            |                               |
| 1    |          |          |          |   |                     |               |           |                      | 128.3      |  |         | 1          |                               |
| 2    | ⊙        | S.T. 180 | 3960     |   | 89 53 30            | 9.0           | -1.0      |                      | 127.3      |  |         | 2          |                               |
| 3    | ⊙        |          | ✓        |   | 270 06 50           | 9.0           |           |                      |            |  |         | 3          |                               |
| 4    |          |          |          |   |                     |               |           |                      |            |  |         | 4          |                               |
| 5    | Δ        | 180      | 3960     |   | 89 52 10            | 9.0           | -0.5      | 126.7                |            |  |         | 5          |                               |
| 6    | Δ        |          | ✓        |   | 270 08 10           | 9.0           |           |                      |            |  |         | 6          |                               |
| 7    |          | 181      | 2640     |   | 89 54 20            | 9.0           | -4.5      |                      | 122.2      |  |         | 7          |                               |
| 8    |          | 182      | 1320     |   | 89 36 50            | 9.0           | -0.1      |                      | 126.6      |  |         | 8          |                               |
| 9    | ⊙        | 183      | 0        |   | 90 —                | 5.0           | -5.0      |                      | 121.7      |  |         | 9          |                               |
| 10   |          | 184      | 1320     |   | 89 51 30            | 9.0           | -5.7      |                      | 121.0      |  |         | 10         |                               |
| 11   |          | 185      | 2640     |   | 89 50 50            | 9.0           | -1.8      |                      | 124.9      |  |         | 11         |                               |
| 12   | ⊙        | 186      | 3960     |   | 89 54 50            | 9.0           | -2.7      |                      | 124.0      |  |         | 12         |                               |
| 13   | ⊙        |          | ✓        |   | 270 05 10           | 9.0           |           |                      |            |  |         | 13         |                               |
| 14   |          |          |          |   |                     |               |           |                      |            |  |         | 14         |                               |
| 15   | Δ        | 186      | 3292     |   | 90 00 30            | 9.0           | +9.2      | 123.1                |            |  |         | 15         |                               |
| 16   | Δ        |          | ✓        |   | 269 59 40           | 9.0           |           |                      |            |  |         | 16         |                               |
| 17   |          | 187      | 1972     |   | 90 01 20            | 9.0           | -9.7      |                      | 122.4      |  |         | 17         |                               |

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SYMBOLS

Δ = BACKSIGHT

⊕ = INSTRUMENT SET-UP

SS = SIDESHOT

⊙ = FORESIGHT

# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA Barlow STATE/COUNTY ARKA BOOK NO. 1 PAGE 191 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKEY NPA DATE 15 DY 2 MO 79 YR  
 SURVEYOR T. SHERKILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br>SS | STATION  | VERTICAL  |   |                        |                        |              |                            | ELEVATION |       | L/R OR DJI | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE     | REMARKS |
|------|--------|----------|-----------|---|------------------------|------------------------|--------------|----------------------------|-----------|-------|------------|---|----------|---------|
|      |        |          | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST      | ROD   |            |   |          |         |
|      |        |          | SLOPE<br> | HORIZ<br>   |                        |                        |              |                            |           |       |            |   |          |         |
| 1    |        |          |           |   |                        |                        |              |                            | 133.1     |       |            | 1   |          |         |
| 2    |        | st. 188  | 652       |   | 89 42 40               | 9.0                    |              | -5.7                       |           | 127.4 |            | 2   |          |         |
| 3    |        | 188+652  | 0         |   | 90                     | 5.0                    |              | -5.0                       |           | 128.1 |            | 3   |          |         |
| 4    |        | 79087    | 0         |   | 90                     | 5.0                    |              | -5.0                       |           | 128.2 | 79087-BARR | 4   | (188.20) |         |
| 5    |        | =188+652 | 0         |   | 270                    | 5.0                    |              |                            |           | 128.1 | 79087-1182 | 5   |          |         |
| 6    |        |          |           |   |                        |                        |              |                            |           | + 0.1 | MISTLE     | 6   |          |         |
| 7    |        |          |           |   |                        |                        |              |                            |           |       |            | 7   |          |         |
| 8    |        |          |           |   |                        |                        |              |                            |           |       |            | 8   |          |         |
| 9    |        |          |           |   |                        |                        |              |                            |           | 128.2 | 79087      | 9   |          |         |
| 10   |        | 79087    | 0         |   | 90                     | 5.0                    |              | +5.0                       | 133.3     |       |            | 10  |          |         |
| 11   |        | =188+652 | 0         |   | 270                    | 5.0                    |              |                            |           |       |            | 11  |          |         |
| 12   |        | 188+652  | 0         |   | 90                     | 5.0                    |              | -5.0                       |           | 128.3 |            | 12  |          |         |
| 13   |        | 189      | 668       |   | 89 49 40               | 9.0                    |              | -7.0                       |           | 126.3 |            | 13  |          |         |
| 14   |        | 190      | 1988      |   | 89 51 00               | 9.0                    |              | -3.7                       |           | 129.6 |            | 14  |          |         |
| 15   |        | 191      | 3508      |   | 89 54 30               | 9.0                    |              | -3.3                       |           | 130.0 |            | 15  |          |         |
| 16   |        |          | ✓         |   | 270 05 50              | 9.0                    |              |                            |           |       |            | 16  |          |         |
| 17   |        |          |           |   |                        |                        |              |                            |           |       |            | 17  |          |         |

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SYMBOLS

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SS = SIDESHOT

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA BARROW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 192 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY MAR DATE 15 DY 2 MO 79 YR  
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE |  | STATION | VERTICAL  |   |                     |               |           |                      | ELEVATION |     | LIR OR DII | RIGHT TURNED HORIZONTAL ANGLE | LINE | REMARKS |
|------|--|---------|-----------|---|---------------------|---------------|-----------|----------------------|-----------|-----|------------|-------------------------------|------|---------|
|      |  |         | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | INST      | ROD |            |                               |      |         |
|      |  |         | SLOPE<br> | HORIZ<br>   |                     |               |           |                      |           |     |            |                               |      |         |
| 1    |  |         |           |   |                     |               |           |                      |           |     |            |                               | 1    |         |
| 2    |  | 191     | 26.40     |   | 90 07 10            | 9.07          | +14.4     | 144.6                |           |     |            |                               | 2    |         |
| 3    |  |         | ✓         |   | 269 52 50           | 9.07          |           |                      |           |     |            |                               | 3    |         |
| 4    |  | 192     | 13.20     |   | 90 04 10            | 9.0           | -10.6     |                      | 134.0     |     |            |                               | 4    |         |
| 5    |  | 193     | 0         |   | 90 —                | 5.0           | -5.0      |                      | 139.6     |     |            |                               | 5    |         |
| 6    |  | 194     | 13.20     |   | 90 03 00            | 9.0           | -10.1     |                      | 134.5     |     |            |                               | 6    |         |
| 7    |  | 195     | 26.40     |   | 90 01 30            | 9.0           | -10.0     |                      | 134.6     |     |            |                               | 7    |         |
| 8    |  | 196     | 39.60     |   | 89 48 00            | 9.07          | +5.2      |                      | 149.8     |     |            |                               | 8    |         |
| 9    |  |         | ✓         |   | 270 12 10           | 9.07          |           |                      |           |     |            |                               | 9    |         |
| 10   |  |         |           |   |                     |               |           |                      |           |     |            |                               | 10   |         |
| 11   |  | 196     | 26.40     |   | 90 15 30            | 9.07          | +20.7     | 170.7                |           |     |            |                               | 11   |         |
| 12   |  |         | ✓         |   | 269 44 40           | 9.07          |           |                      |           |     |            |                               | 12   |         |
| 13   |  | 197     | 13.20     |   | 90 04 10            | 9.0           | -10.6     |                      | 160.1     |     |            |                               | 13   |         |
| 14   |  | 198     | 0         |   | 90 —                | 5.0           | -5.0      |                      | 165.7     |     |            |                               | 14   |         |
| 15   |  | 199     | 13.20     |   | 90 08 10            | 9.0           | -12.1     |                      | 158.6     |     |            |                               | 15   |         |
| 16   |  | 200     | 26.40     |   | 90 07 40            | 9.0           | -14.7     |                      | 156.0     |     |            |                               | 16   |         |
| 17   |  |         |           |   |                     |               |           |                      |           |     |            |                               | 17   |         |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

GSI AREA B Allow STATE/COUNTY ALASKA BOOK NO. 1 PAGE 193 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NAR DATE 15 DY 2 MO 79 YR  
 SURVEYOR T. SHERILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION           | VERTICAL |   |                     |               |           |                      | HORIZONTAL |  | REMARKS      |            |                               |
|------|----------|-------------------|----------|---|---------------------|---------------|-----------|----------------------|------------|--|--------------|------------|-------------------------------|
|      |          |                   | DISTANCE | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL ANGLE OBS. | ROD RDG OR HI | ELEV DIFF | FINAL ELEVATION DIFF | ELEVATION  |  |              | LIR OR DIR | RIGHT TURNED HORIZONTAL ANGLE |
|      |          |                   | SLOPE    | HORIZ   |                     |               |           | INST                 | ROD        |  |              |            |                               |
| 1    |          |                   |          |   |                     |               |           |                      | 170.7      |  |              | 1          |                               |
| 2    |          | S.P. 201          | 3960     |   | 90 06 50            | 90.7          | -16.5     |                      | 154.2      |  |              | 2          |                               |
| 3    |          |                   | ✓        |   | 90 53 20            | 90.0          |           |                      |            |  |              | 3          |                               |
| 4    |          |                   |          |   |                     |               |           |                      |            |  |              | 4          |                               |
| 5    |          | 201               | 2690     |   | 89 49 20            | 90.7          | +0.6      | 154.9                |            |  |              | 5          |                               |
| 6    |          |                   | ✓        |   | 270 10 50           | 90.0          |           |                      |            |  |              | 6          |                               |
| 7    |          | 202               | 1320     |   | 89 44 30            | 90.0          | -3.0      | 151.9                |            |  |              | 7          |                               |
| 8    |          | 202 + 754         | 566      |   | 89 26 30            | 90.7          | -3.5      | 151.4                |            |  | 79088 - 1182 | 8          | (151.44)                      |
| 9    |          | 79088             | ✓        |   | 270 33 40           | 90.0          |           | 150.9                |            |  | 79088 - 1182 | 9          |                               |
| 10   |          |                   |          |   |                     |               |           |                      | ±0.5       |  | MISTIE       | 10         |                               |
| 11   |          |                   |          |   |                     |               |           |                      |            |  |              | 11         |                               |
| 12   |          |                   |          |   |                     |               |           |                      |            |  |              | 12         |                               |
| 13   |          | 79088 = 202 + 754 | 566      |   | 89 26 30            | 90.0          | +3.5      | 154.9                | 151.4      |  | 79088        | 13         |                               |
| 14   |          | 203               | 0        |   | 90 —                | 5.0           | -5.0      |                      | 149.9      |  |              | 14         |                               |
| 15   |          | T.S. 1            | 1320     |   | 90 04 00            | 90.0          | -10.5     |                      | 144.4      |  |              | 15         |                               |
| 16   |          | 2                 | 2640     |   | 90 09 10            | 90.0          | -15.9     |                      | 139.0      |  |              | 16         |                               |
| 17   |          | 3                 | 3960     |   | 90 04 00            | 90.0          | -13.3     |                      | 141.6      |  |              | 17         |                               |

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# HORIZONTAL AND VERTICAL SURVEY NOTES

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GSI AREA BARLOW STATE/COUNTY ALASKA BOOK NO. 1 PAGE 194 OF       
 LINE/LOOP NO. 612 TYPE SURVEY      CLIENT HUSKY NAP DATE 15 DY 2 MO 79 YR  
 SURVEYOR T. SHERRILL INSTRUMENT DESC/SERIAL NO.      CREW NO. 1182

| LINE | <br><br> | STATION | VERTICAL  |   |                        |                        |              |                            | ELEVATION |       | L/R OR DJ | HORIZONTAL<br>RIGHT TURNED<br>HORIZONTAL<br>ANGLE | LINE | REMARKS |
|------|----------|---------|-----------|---|------------------------|------------------------|--------------|----------------------------|-----------|-------|-----------|---|------|---------|
|      |          |         | DISTANCE  | <input checked="" type="checkbox"/> FEET<br><input type="checkbox"/> METERS | VERTICAL<br>ANGLE OBS. | ROD<br>RDG<br>OR<br>HI | ELEV<br>DIFF | FINAL<br>ELEVATION<br>DIFF | INST      | ROD   |           |   |      |         |
|      |          |         | SLOPE<br> | HORIZ<br>   |                        |                        |              |                            |           |       |           |   |      |         |
| 1    |          |         |           |   |                        |                        |              |                            | 154.4     |       |           | 1   |      |         |
| 2    |          | T.S. 4  | 5280      |   | 90 00 50               | 9.0                    |              | -9.7                       |           | 145.2 |           | 2   |      |         |
| 3    |          | T.S. 5  | 6600      |   | 89 57 30               | 9.0                    |              | -3.3                       |           | 151.6 |           | 3   |      |         |
| 4    |          | T.S. 6  | 7920      |   | 89 55 00               | 9.0                    |              | +3.8                       |           | 158.7 |           | 4   |      |         |
| 5    |          |         |           |   |                        |                        |              |                            |           |       |           | 5   |      |         |
| 6    |          |         |           |   | SOUTH END OF LINE      |                        |              |                            |           |       |           | 6   |      |         |
| 7    |          |         |           |   |                        |                        |              |                            |           |       |           | 7   |      |         |
| 8    |          |         |           |   |                        |                        |              |                            |           |       |           | 8   |      |         |
| 9    |          |         |           |   |                        |                        |              |                            |           |       |           | 9   |      |         |
| 10   |          |         |           |   |                        |                        |              |                            |           |       |           | 10  |      |         |
| 11   |          |         |           |   |                        |                        |              |                            |           |       |           | 11  |      |         |
| 12   |          |         |           |   |                        |                        |              |                            |           |       |           | 12  |      |         |
| 13   |          |         |           |   |                        |                        |              |                            |           |       |           | 13  |      |         |
| 14   |          |         |           |   |                        |                        |              |                            |           |       |           | 14  |      |         |
| 15   |          |         |           |   |                        |                        |              |                            |           |       |           | 15  |      |         |
| 16   |          |         |           |   |                        |                        |              |                            |           |       |           | 16  |      |         |
| 17   |          |         |           |   |                        |                        |              |                            |           |       |           | 17  |      |         |

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