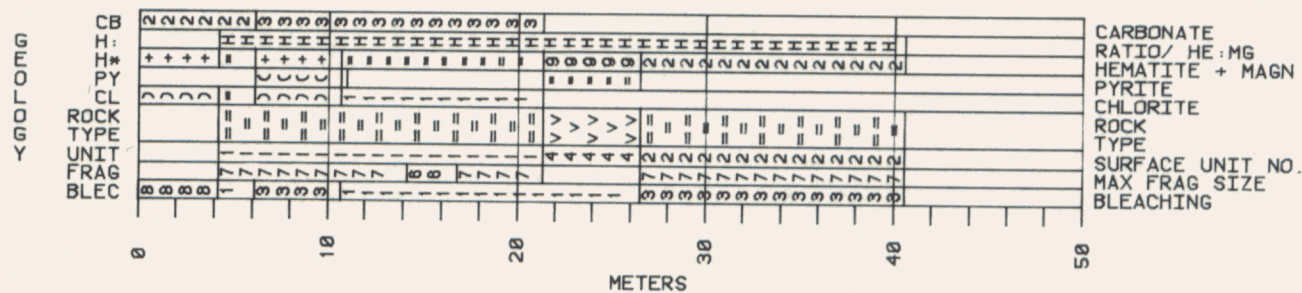
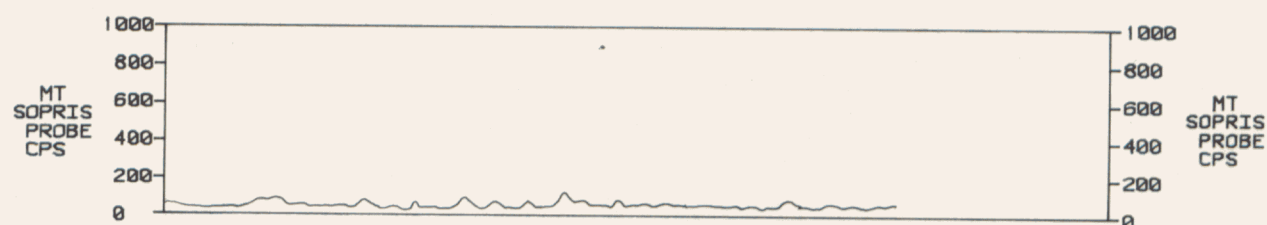
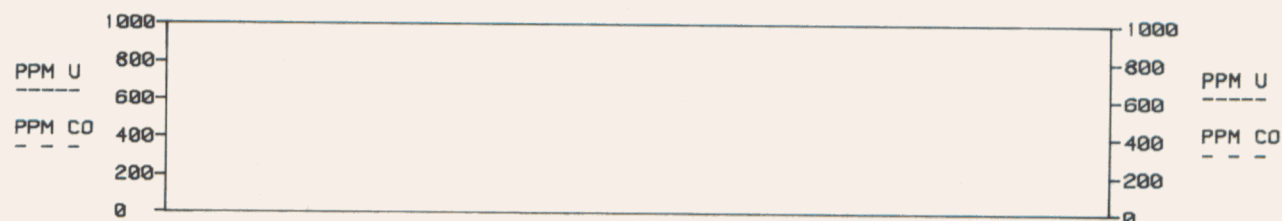
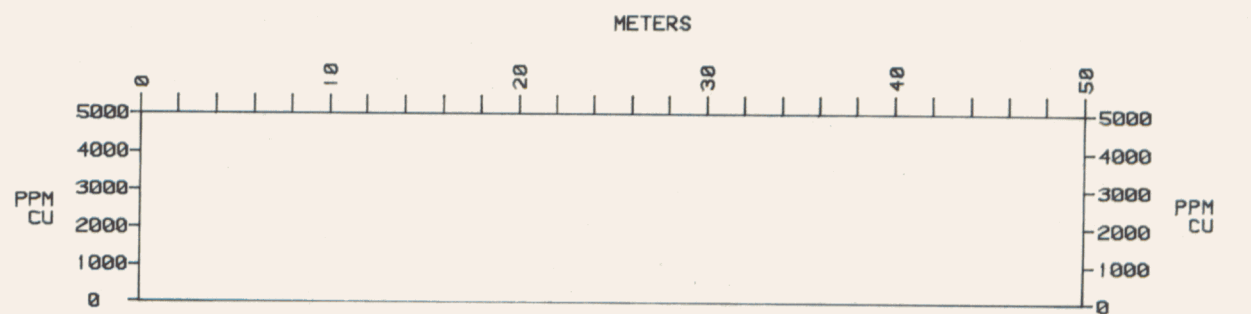


| BIC OF SHIP<br>LOCALITY |    | ENTIRE /<br>TALL | DESCRIPTION                     | THICK-<br>NESS | GRAFL LOG |
|-------------------------|----|------------------|---------------------------------|----------------|-----------|
| 1. 44-45                | 1  | 1                | FRACTURING LIM                  | 40             | 1         |
|                         | 2  | 2                | FRACTURING MARGINITE            | 80             | 2         |
|                         | 3  | 3                | FRACTURING MARG.                | 80             | 3         |
|                         | 4  | 4                | FRACTURING EXTENS               | 80             | 4         |
|                         | 5  | 5                |                                 | 80             | 5         |
|                         | 6  | 6                |                                 | 80             | 6         |
|                         | 7  | 7                |                                 | 80             | 7         |
|                         | 8  | 8                |                                 | 80             | 8         |
|                         | 9  | 9                |                                 | 80             | 9         |
|                         | 10 | 10               |                                 | 80             | 10        |
| 1. 70-75                | 1  | 1                | SURF. S. MARGINITE              | 40             | 1         |
|                         | 2  | 2                |                                 | 80             | 2         |
|                         | 3  | 3                |                                 | 80             | 3         |
|                         | 4  | 4                |                                 | 80             | 4         |
|                         | 5  | 5                |                                 | 80             | 5         |
|                         | 6  | 6                |                                 | 80             | 6         |
|                         | 7  | 7                |                                 | 80             | 7         |
|                         | 8  | 8                |                                 | 80             | 8         |
|                         | 9  | 9                |                                 | 80             | 9         |
|                         | 10 | 10               |                                 | 80             | 10        |
| 1. 23-27                | 1  | 1                | SURFACE UNIT NO.                | 40             | 1         |
|                         | 2  | 2                |                                 | 80             | 2         |
|                         | 3  | 3                |                                 | 80             | 3         |
|                         | 4  | 4                |                                 | 80             | 4         |
|                         | 5  | 5                |                                 | 80             | 5         |
|                         | 6  | 6                |                                 | 80             | 6         |
|                         | 7  | 7                |                                 | 80             | 7         |
|                         | 8  | 8                |                                 | 80             | 8         |
|                         | 9  | 9                |                                 | 80             | 9         |
|                         | 10 | 10               |                                 | 80             | 10        |
| 1. 24-27                | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |
| 1. 50-55                | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |
| 1. 60-65                | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |
| 1. 70-75                | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |
| 1. 80-85                | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |
| 1. 90-95                | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |
| 1. 95-100               | 1  | 1                | SPINELITE                       | 100            | 1         |
|                         | 2  | 2                | SPINELITE MARGINITE             | 200            | 2         |
|                         | 3  | 3                | SPINELITE + SPINELITE MARGINITE | 400            | 3         |
|                         | 4  | 4                | SPINELITE + SPINELITE MARGINITE | 400            | 4         |
|                         | 5  | 5                | SPINELITE + SPINELITE MARGINITE | 400            | 5         |
|                         | 6  | 6                | SPINELITE + SPINELITE MARGINITE | 400            | 6         |
|                         | 7  | 7                | SPINELITE + SPINELITE MARGINITE | 400            | 7         |
|                         | 8  | 8                | SPINELITE + SPINELITE MARGINITE | 400            | 8         |
|                         | 9  | 9                | SPINELITE + SPINELITE MARGINITE | 400            | 9         |
|                         | 10 | 10               | SPINELITE + SPINELITE MARGINITE | 400            | 10        |

FIG. WJV 80-I61  
ARCHER CATHRO AND ASSOCIATES LTD  
HOLE 80I017  
IGOR PROPERTY  
WERNECKE JOINT VENTURE  
IGC GRAFLOG  
INTERNATIONAL GEOSYSTEMS CORP



| IGC GRAFLOG LEGEND |         |                     |        |           |
|--------------------|---------|---------------------|--------|-----------|
| DATE               | ENTRY / | DESCRIPTION         | SYMBOL | GRAPH LOG |
| TIME               | VALUE   |                     |        |           |
| 7-27-77            | 0       | RESECTION 8 - 14000 |        |           |
| 7-28-77            | 0       | RESECTION 8 - 14000 |        |           |
| 7-29-77            | 0       | RESECTION 8 - 14000 |        |           |
| 7-30-77            | 0       | RESECTION 8 - 14000 |        |           |
| 7-31-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-1-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-2-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-3-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-4-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-5-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-6-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-7-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-8-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-9-77             | 0       | RESECTION 8 - 14000 |        |           |
| 8-10-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-11-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-12-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-13-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-14-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-15-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-16-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-17-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-18-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-19-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-20-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-21-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-22-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-23-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-24-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-25-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-26-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-27-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-28-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-29-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-30-77            | 0       | RESECTION 8 - 14000 |        |           |
| 8-31-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-1-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-2-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-3-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-4-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-5-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-6-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-7-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-8-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-9-77             | 0       | RESECTION 8 - 14000 |        |           |
| 9-10-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-11-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-12-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-13-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-14-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-15-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-16-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-17-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-18-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-19-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-20-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-21-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-22-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-23-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-24-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-25-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-26-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-27-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-28-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-29-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-30-77            | 0       | RESECTION 8 - 14000 |        |           |
| 9-31-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-1-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-2-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-3-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-4-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-5-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-6-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-7-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-8-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-9-77            | 0       | RESECTION 8 - 14000 |        |           |
| 10-10-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-11-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-12-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-13-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-14-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-15-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-16-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-17-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-18-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-19-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-20-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-21-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-22-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-23-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-24-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-25-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-26-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-27-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-28-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-29-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-30-77           | 0       | RESECTION 8 - 14000 |        |           |
| 10-31-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-1-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-2-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-3-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-4-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-5-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-6-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-7-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-8-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-9-77            | 0       | RESECTION 8 - 14000 |        |           |
| 11-10-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-11-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-12-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-13-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-14-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-15-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-16-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-17-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-18-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-19-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-20-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-21-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-22-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-23-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-24-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-25-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-26-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-27-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-28-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-29-77           | 0       | RESECTION 8 - 14000 |        |           |
| 11-30-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-1-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-2-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-3-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-4-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-5-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-6-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-7-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-8-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-9-77            | 0       | RESECTION 8 - 14000 |        |           |
| 12-10-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-11-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-12-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-13-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-14-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-15-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-16-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-17-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-18-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-19-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-20-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-21-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-22-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-23-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-24-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-25-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-26-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-27-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-28-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-29-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-30-77           | 0       | RESECTION 8 - 14000 |        |           |
| 12-31-77           | 0       | RESECTION 8 - 14000 |        |           |

FIG. WJV 80-I62

ARCHER CATHRO AND ASSOCIATES LTD.

HOLE 80I017

IGOR PROPERTY

WERNECKE JOINT VENTURE

IGC GRAFLOG

INTERNATIONAL GEOSYSTEMS CORP.