

## APPENDIX B (Cont'd)

|    | <u>Sample</u>          | <u>Radiation</u> | <u>Nominal<br/>Pressure<br/>(kilobars)</u> | <u>Time<br/>(hours)</u> | <u>Results and<br/>Comments</u>        |
|----|------------------------|------------------|--------------------------------------------|-------------------------|----------------------------------------|
| 46 |                        |                  |                                            |                         |                                        |
| 47 | RbCl-NaCl              | Ag/Rh            | 5<br>0                                     | 48<br>48                |                                        |
| 48 | KCl NaCl               | Ag/Rh            | 10<br>0                                    | 40<br>40                | No observable splitting                |
| 49 | KCl NaCl               | Ag/Rh            | 5<br>0                                     | 48<br>40                | 1 line of KCl-II                       |
| 50 | KCl NaCl               | Ag/Rh            | 10                                         | 40                      | No KCl-II                              |
| 51 | KCl NaCl               | Ag/Rh            | 10<br>10                                   | 20<br>51                | Alignment check                        |
| 52 | KCl NaCl               | Ag/Rh            | 0<br>10                                    | 71<br>52                | Good line splitting,<br>see text       |
| 53 | KCl NaCl               | Ag/Rh            | 0<br>15                                    | 88<br>45                | Good line splitting,<br>see text       |
| 54 | KCl NaCl               | Ag/Rh            | 0<br>15                                    | 46<br>65                | Good line splitting,<br>see text       |
| 55 | KCl NaCl               | Ag/Rh            | 0                                          | 65                      | Good line splitting,<br>see text       |
| 56 | MgO                    | Ag/Rh            | 10<br>10                                   | 22<br>40                | Alignment check<br>No observable split |
| 57 | MgO                    | Ag/Rh            | 0<br>15                                    | 40<br>40                |                                        |
| 58 | MgO                    | Ag/Rh            | 0                                          | 40                      | 1 split = 0.1277                       |
| 59 | MgO + RbCl             | Ag/Rh            | 0<br>15                                    | 20<br>40                | Alignment check                        |
| 60 | MgO + RbCl             | Ag/Rh            | 10                                         | 40                      | Good line splitting,<br>RbCl-II        |
| 61 | RbCl + MgO             | Ag/Rh            | 0<br>6                                     | 40<br>40                | See text                               |
| 62 | RbCl + MgO             | Ag/Rh            | 0                                          | 40                      | See text                               |
| 63 | RbCl + MgO             | Ag/Rh            | 10<br>10                                   | 20<br>20                | See text                               |
| 64 | RbCl + MgO             | Ag/Rh            | 0                                          | 20                      | See text                               |
| 65 | BN (cubic)<br>Cu grids | Ag               | 0                                          | 17                      | 7 lines<br>Hex BN shown                |
| 66 | BN (cubic)<br>Cu grids | Ag/Rh            | 0<br>10                                    | 24<br>22                | Cu interference<br>with cubic BN       |

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|----|------------------------|------------------|--------------------------------------------|-------------------------|-----------------------------------------------|
| 67 | BN (cubic)<br>Cu grids | Ag/Rh            | 0<br>15                                    | 45<br>40                |                                               |
| 68 | BN (cubic)<br>Cu grids | Ag/Rh            | 0<br>15                                    | 20<br>46                |                                               |
| 69 | Al grids               | Ag/Rh            | 0<br>15                                    | 41<br>46                |                                               |
| 70 | Al grids               | Mo/Zr            | 0                                          | 46                      |                                               |
| 71 | Al grids               | Mo/Zr            | 15<br>0                                    | 44<br>44                |                                               |
| 72 | Al grids               | Mo/Zr            | 0                                          | 90                      |                                               |
| 73 | RbCl                   | Ag/Rh            | 5                                          | 15                      | New diamond, check run                        |
| 74 | BN NaCl<br>Cu grids    | Ag/Rh            | 0                                          | 20                      | NaCl lines only                               |
| 75 | Cu grids               | Ag/Rh            | 10                                         | 20                      | Diamonds broken                               |
| 76 | Cu grids               | Ag/Rh            | 0.5                                        | 44                      | NaCl lines                                    |
| 77 | Cu grids               | Ag/Rh            | 5                                          | 42                      | An interference                               |
| 78 | Cu grids               | Mo/Zr            | 5<br>5                                     | 40<br>48                |                                               |
| 79 | Cu grids               | Mo/Zr            | 0                                          | 48                      |                                               |
| 80 | Cu grids               | Mo/Zr            | 2.5                                        | 17                      | Good NaCl, spotty BN                          |
| 81 | BN - NaCl              | Mo/Zr            | 5<br>0<br>0                                | 24<br>24<br>40          | Good NaCl, spotty BN<br>no splitting          |
| 82 | RbBr RbCl              | Mo/Zr            | 5                                          | 40                      | RbCl-I, RbCl-II,<br>RbBr Observed             |
| 83 | RbBr RbCl              | Mo/Zr            | 0<br>4                                     | 40<br>52                | Low intensity                                 |
| 84 | RbBr RbCl              | Mo/Zr            | 0<br>4                                     | 52<br>44                | Cu retaining ring extruded<br>over X-ray beam |
| 85 | RbBr RbCl              | Mo/Zr            | 0                                          | 45                      |                                               |
| 86 | RbBr                   | Mo/Zr            | 0                                          | 43                      | Very weak, sample<br>extruded                 |
| 87 | RbBr                   | Mo/Zr            | 5<br>5                                     | 26<br>25                | Single phase RbBr-II                          |