## EXHIBIT
## HUMAN AND COMPUTER DISCOVERY OF PASSWORDS

| Number of Characters | Possible Combinations | Time needed for a person to try all | Time needed for a computer to try all |
|---|---|---|---|
| 1 | 36 | 6 minutes | .000036 second |
| 2 | 1,300 | 4 hours | .00130 second |
| 3 | 47,000 | 6 days | .04 second |
| 4 | 1,700,000 | 6 months | 2 seconds |
| 5 | 60,000,000 | 20 years | 60 seconds |
| 10 | 3,700,000,000,000,000 | >999 million years | 118 years |

* Characters include the letters A to Z and numbers 0 to 9.
* Human discovery assumes 1 try every 10 seconds.
* Computer discovery assumes 1 million tries per second.