

## Pembina Corunna Facility Cavern Spacing

|       |       | C/C Spacing | Average ID | S/D   |
|-------|-------|-------------|------------|-------|
|       |       | Meter       | Meter      | Ratio |
| HC-1  | HC-2  | 152.44      | 48.78      | 3.13  |
|       | HC-3  | 114.94      | 65.55      | 1.75  |
| HC-3  | HC-4  | 190.55      | 70.12      | 2.72  |
|       | HC-1  | 114.94      | 65.55      | 1.75  |
|       | HC-4  | 151.83      | 86.89      | 1.75  |
|       | HC-5  | 113.41      | 79.27      | 1.43  |
| HC-4  | HC-6  | 190.55      | 77.74      | 2.45  |
|       | HC-2  | 114.94      | 70.12      | 1.64  |
|       | HC-3  | 151.83      | 86.89      | 1.75  |
|       | HC-5  | 190.55      | 83.84      | 2.27  |
|       | HC-6  | 112.50      | 82.32      | 1.37  |
|       | HC-10 | 154.88      | 91.46      | 1.69  |
| HC-5  | HC-3  | 113.41      | 79.27      | 1.43  |
|       | HC-4  | 190.55      | 83.84      | 2.27  |
|       | HC-6  | 150.30      | 74.70      | 2.01  |
|       | HC-7  | 112.50      | 94.51      | 1.19  |
| HC-6  | HC-3  | 190.55      | 77.74      | 2.45  |
|       | HC-4  | 112.50      | 82.32      | 1.37  |
|       | HC-5  | 150.30      | 74.70      | 2.01  |
|       | HC-7  | 190.55      | 92.99      | 2.05  |
|       | HC-8  | 114.02      | 62.50      | 1.82  |
|       | HC-10 | 168.60      | 82.32      | 2.05  |
|       | HC-11 | 162.50      | 74.70      | 2.18  |
| HC-7  | HC-8  | 114.94      | 82.32      | 1.40  |
| HC-8  | HC-11 | 115.18      | 64.02      | 2.42  |
|       | HC-12 | 184.76      | 56.40      | 3.28  |
| HC-9  | HC-10 | 150.91      | 92.99      | 1.62  |
| HC-10 | HC-11 | 150.91      | 83.84      | 1.80  |
| HC-11 | HC-12 | 150.91      | 68.60      | 2.20  |
| BR-45 | BR-43 | 76.52       | 90.5       | 3.36  |
|       | BR-47 | 125.31      | 115.0      | 2.41  |
|       | HC-49 | 99.91       | 102.0      | 2.93  |
|       | HC-51 | 263.71      | 86.89      | 3.04  |
|       | HC-56 | 90.70       | 97.5       | 4.04  |
| HC-49 | BR-57 | 271.95      | 134.15     | 2.03  |
|       | BR-76 | 296.04      | 79.27      | 4.53  |
|       | BR-53 | 271.95      | 134.15     | 2.03  |
|       | HC-51 | 296.04      | 79.27      | 3.73  |
|       | BR-45 | 298.48      | 92.99      | 3.21  |

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|       |       |        |        |       |
|-------|-------|--------|--------|-------|
| HC-51 | HC-49 | 296.04 | 79.27  | 3.73  |
|       | BR-53 | 296.34 | 128.05 | 2.31  |
|       | HC-56 | 259.76 | 79.27  | 3.28  |
|       | BR-47 | 291.46 | 99.09  | 2.94  |
|       | BR-45 | 263.72 | 86.89  | 3.04  |
| HC-56 | HC-51 | 259.76 | 79.27  | 3.28  |
|       | BR-55 | 99.70  | 68.60  | 1.45  |
|       | BR-82 | 231.71 | 77.74  | 2.98  |
|       | BR-47 | 180.49 | 105.18 | 1.72  |
| BR-59 | BR-43 | 278.66 | 108.23 | 2.57  |
|       | BR-47 | 262.50 | 132.62 | 1.98  |
|       | BR-82 | 264.02 | 105.18 | 2.51  |
|       | BR-61 | 296.95 | 109.76 | 2.71  |
| BR-61 | BR-62 | 75.00  | 85.37  | 0.88  |
|       | BR-63 | 213.41 | 51.83  | 4.12  |
|       | BR-64 | 152.44 | 39.63  | 3.85  |
|       | BR-65 | 214.02 | 108.23 | 1.98  |
| BR-63 | BR-64 | 76.22  | 12.20  | 6.25  |
|       | BR-65 | 213.41 | 80.79  | 2.64  |
|       | BR-71 | 244.21 | 50.30  | 4.85  |
|       | BR-72 | 158.23 | 12.20  | 12.96 |
| BR-65 | BR-64 | 152.44 | 68.60  | 2.22  |
|       | BR-66 | 76.52  | 68.60  | 1.12  |
|       | BR-67 | 192.38 | 118.90 | 1.62  |
|       | BR-68 | 152.44 | 68.60  | 2.22  |
|       | BR-69 | 212.50 | 117.38 | 1.81  |
| BR-67 | BR-68 | 76.22  | 50.30  | 1.52  |
|       | BR-69 | 188.11 | 99.09  | 1.90  |
|       | BR-71 | 237.80 | 88.41  | 2.69  |
|       | BR-72 | 148.48 | 50.30  | 2.95  |

### CSA- Z341.2-14

#### 1.6

The requirements of this Standard do not apply retroactively to existing installations and installations under construction at the time of publication, but they do apply to the extension, replacement, maintenance, and upgrading of such installations.