

SMITH

A Schlumberger Company

| WELL INFORMATION | | | | ADDITIONAL NOTES | |
|------------------|----------------------------|-----------|--------|------------------|--|
| Company: | Bill Barrett Corp. | | | | |
| Well Name: | Pappenheim 06-62-23-0560BH | | | | |
| State: | CO | Date: | | | |
| KOP (ft): | 5,903 | TMD (ft): | 10,747 | | |
| TOL (ft): | 5,824 | BOL (ft): | 10,746 | | |

| HYDRAULIC VALVE | |  | SWELLING OH PACKER | |  |
|-----------------|----------|---|--------------------|-----------|---|
| Maximum OD | 5.625 in | | Maximum OD | 5.625 | |
| Minimum ID | 3.75 in | | Minimum ID | Base Pipe | |

| CIRCULATING VALVE | |  | BALL DROP FRAC VALVE | |  |
|-------------------|----------|---|----------------------|----------|---|
| Maximum OD | 5.625 in | | Maximum OD | 5.625 in | |
| Post Drill ID | 3.75 in | | Post Drill ID | 3.75 in | |

| FRAC VALVE SPECIFICATIONS | | | | | | | | | |
|---------------------------|-------|-------|--------|-----------|-------------|------|-------|--------|-----------|
| Description | OD | ID | Length | Depth (T) | Description | OD | ID | Length | Depth (T) |
| Frac Sleeve # 1 | 5.625 | 3.750 | 1.97 | 10612 | Packer # 1 | 5.75 | 4.000 | 14.22 | 10563 |
| Frac Sleeve # 2 | 5.625 | 1.538 | 1.99 | 10473 | Packer # 2 | 5.75 | 4.000 | 14.06 | 10377 |
| Frac Sleeve # 3 | 5.625 | 1.625 | 1.99 | 10288 | Packer # 3 | 5.75 | 4.000 | 14.05 | 10194 |
| Frac Sleeve # 4 | 5.625 | 1.715 | 2.00 | 10104 | Packer # 4 | 5.75 | 4.000 | 14.06 | 10006 |
| Frac Sleeve # 5 | 5.625 | 1.808 | 1.99 | 9912 | Packer # 5 | 5.75 | 4.000 | 14.06 | 9812 |
| Frac Sleeve # 6 | 5.625 | 1.905 | 1.99 | 9719 | Packer # 6 | 5.75 | 4.000 | 14.06 | 9619 |
| Frac Sleeve # 7 | 5.625 | 2.004 | 1.99 | 9525 | Packer # 7 | 5.75 | 4.000 | 14.05 | 9425 |
| Frac Sleeve # 8 | 5.625 | 2.108 | 1.99 | 9332 | Packer # 8 | 5.75 | 4.000 | 14.07 | 9187 |
| Frac Sleeve # 9 | 5.625 | 2.215 | 2.01 | 9094 | Packer # 9 | 5.75 | 4.000 | 14.07 | 8949 |
| Frac Sleeve # 10 | 5.625 | 2.326 | 1.99 | 8856 | Packer # 10 | 5.75 | 4.000 | 14.06 | 8711 |
| Frac Sleeve # 11 | 5.625 | 2.441 | 1.99 | 8618 | Packer # 11 | 5.75 | 4.000 | 14.05 | 8474 |
| Frac Sleeve # 12 | 5.625 | 2.560 | 1.99 | 8380 | Packer # 12 | 5.75 | 4.000 | 14.05 | 8236 |
| Frac Sleeve # 13 | 5.625 | 2.683 | 1.99 | 8142 | Packer # 13 | 5.75 | 4.000 | 14.05 | 7998 |
| Frac Sleeve # 14 | 5.625 | 2.811 | 1.99 | 7904 | Packer # 14 | 5.75 | 4.000 | 14.06 | 7760 |
| Frac Sleeve # 15 | 5.625 | 2.943 | 1.99 | 7666 | Packer # 15 | 5.75 | 4.000 | 14.03 | 7522 |
| Frac Sleeve # 16 | 5.625 | 3.080 | 1.99 | 7428 | Packer # 16 | 5.75 | 4.000 | 14.04 | 7284 |
| Frac Sleeve # 17 | 5.625 | 3.221 | 1.99 | 7190 | Packer # 17 | 5.75 | 4.000 | 14.06 | 7046 |
| Frac Sleeve # 18 | 5.625 | 3.368 | 1.99 | 6955 | Packer # 18 | 5.75 | 4.000 | 14.05 | 6811 |
| | | | | | Packer # 19 | 5.75 | 4.000 | 14.05 | 6708 |
| | | | | | | | | | |

PV-3 LINER TOP PACKER



HYDRAULIC HANGER

