PathTracker Making Drilling Easier Tips | Tricks | News-Info | #6 PathTracker 6.0 Proximity module



The PathTracker 6.0 Proximity module is very rich in functionality and very easy to use. The Proximity Module lets the Direction Driller monitor the plan and anti-collision wells at the same time. **IMG 1** contains an active survey file on the left and the Proximity screen on the right. Clicking on the last survey row (90) and clicking on the Proximity icon on the tool bar (or pressing F5 on the keyboard) will display relevant proximity information in the right screen.

| File | Tools V | Indow Help | | | | | | | | | | | | | | | | | | | | |
|------|------------|-----------------|---|--------------|---------|-------------|------------|----------|---------|---------|---------|----|----------------|-------------|-----------|---------------------|---------------|--------------|-------------|------------|------------|---|
| | \ProgramDa | tal PathTracker | \Survey\Proxin | its/Drillar6 | | | | | | | | ลไ | Proximity Res | vita | | | | | | | | |
| - | | | (A) | | 014 + 4 | | h 📾 | | | ET E | | | Defense Wet | Re Well 1 / | Parlame e | e Marth | | | | | | 1 |
| | | | | | | | | | | - 10 | | | Pleterence Wei | big wei i v | | e weij | | | | | | |
| Cor | npany: | Rig Well | 1 /Deferer | wee Well) | | | | | | | | | Start Depth | 30/9./9 | En | d Depth 3079.79 | - | | | | | |
| Loc | ation: | big wei | i (nelelel | ice weij | | | | | | | | | Messages | 0 wa | mings | Errors | 0 | | | | | |
| | | | | | | | | | | | | | snow messages | Las | t scan | Sep 07, 17:57:03 Pt | 4 | | | | | |
| Sec | tion calc | ulated on: | 315.6035 | | Cal | culation Me | ethod: Mir | nimum Cu | rvature | | | | Big Well | 1 (Referenc | e Well) | Big Well 2 (Exi | sting Anti-co | dision well) | Big | Well 1 (Ps | in) | |
| | Depth | Inc | Azimuth | TVD | North | East | Section | Dogleg | BidRate | Trnrate | Comment | ^ | | | MD (m) | Distance To | HD To | SubSea To D | Distance To | HD To | SubSea To | |
| | Meters | Degrees | Degrees | Meters | Meters | Meters | Meters | /30m | /30m | /30m | | | | | 3079.79 | 1111 | 21.70 L | 4.76 Below | 4.5/ | 4,41 H | 1.22 Above | |
| 67 | 2850.42 | 1.83 | 299.88 | 2849.32 | 31.57 | -24.80 | 39.91 | 0.25 | 0.05 | 7.51 | | | | | | | | | | | | |
| 68 | 2860.0 | 3 2.10 | 302.68 | 2858.96 | 31.74 | -25.09 | 40.23 | 0.89 | 0.84 | 8.71 | | | | | | | | | | | | |
| 69 | 2869.61 | 2.80 | 302.05 | 2868.58 | 31.96 | -25.43 | 40.63 | 2.18 | 2.18 | 1.96 | | | | | | | | | | | | |
| 70 | 2879.3 | 3.16 | 302.40 | 2878.20 | 32.23 | -25.85 | 41.12 | 1.12 | 1.12 | 1.09 | | | | | | | | | | | | |
| 71 | 2888.4 | 3.15 | 306.47 | 2887.32 | 32.52 | -26.27 | 41.61 | 0.74 | 0.03 | 13.36 | | | | | | | | | | | | |
| 72 | 2897.9 | 3.33 | 304.89 | 2896.83 | 32.83 | -26.71 | 42.14 | 0.63 | 0.57 | 4.98 | | | | | | | | | | | | |
| 73 | 2907.6 | 1 3.53 | 306.35 | 2906.44 | 33.16 | -27.18 | 42.71 | 0.68 | 0.62 | 4.55 | _ | | | | | | | | | | | |
| 74 | 2926.73 | 3 4.22 | 305.20 | 2925.52 | 33.92 | -28.23 | 43.98 | 1.09 | 1.08 | 1.80 | | | | | | | | | | | | |
| 75 | 2935.20 | 4.69 | 306.17 | 2934.96 | 34.35 | -28.82 | 44.71 | 1.51 | 1.49 | 3.07 | _ | | | | | | | | | | | |
| 76 | 2945.65 | 5 5.20 | 305.49 | 2944.37 | 34.83 | -29.48 | 45.51 | 1.63 | 1.62 | 2.16 | | | | | | | | | | | | |
| | 2955.11 | 5.52 | 305.67 | 2953.87 | 35.35 | -30.20 | 46.39 | 1.05 | 1.01 | 3.71 | _ | | | | | | | | | | | |
| 78 | 2904.00 | 0.09 | 305.47 | 2903.22 | 35.90 | -30.96 | 41.32 | 2.09 | 0.78 | 10.21 | | | | | | | | | | | | |
| 80 | 2983.8 | 5 734 | 303.12 | 2972.00 | 37.13 | -31.04 | 40.55 | 3.21 | 3.12 | 6.54 | | | | | | | | | | | | |
| 81 | 2993.4 | 7 806 | 303.94 | 2991.89 | 37.84 | -33.87 | 50.73 | 2 27 | 2.25 | 2.56 | | | | | | | | | | | | |
| 82 | 3003.1 | 8.88 | 304.25 | 3001.43 | 38.63 | -35.04 | 52.12 | 2.56 | 2.55 | 0.96 | | | | | | | | | | | | |
| 83 | 3012.5 | 9.76 | 306.41 | 3010.78 | 39.52 | -36.29 | 53.63 | 3.00 | 2.78 | 6.84 | | | | | | | | | | | | |
| 84 | 3022.12 | 2 10.35 | 307.39 | 3020.16 | 40.52 | -37.63 | 55.28 | 1.93 | 1.86 | 3.08 | | | | | | | | | | | | |
| 85 | 3031.8 | 1 10.33 | 308.15 | 3029.70 | 41.59 | -39.00 | 57.00 | 0.43 | 0.06 | 2.35 | | | | | | | | | | | | |
| 86 | 3041.5 | 10.57 | 309.09 | 3039.23 | 42.69 | -40.37 | 58.74 | 0.91 | 0.74 | 2.91 | | | | | | | | | | | | |
| 87 | 3051.1 | 10.64 | 308.85 | 3048.70 | 43.80 | -41.75 | 60.51 | 0.26 | 0.22 | 0.75 | | 8 | | | | | | | | | | |
| 88 | 3050.6 | 10.65 | 308.70 | 3058.01 | 44.90 | -43.12 | 62.24 | 0.09 | 0.03 | 0.48 | | | | | | | | | | | | |
| 89 | 3070.2 | 9 10.49 | 308.75 | 3067.52 | 46.01 | -44.50 | 64.01 | 0.50 | 0.50 | 0.15 | | | | | | | | | | | | |
| 90 | 3079.7 | 10.03 | 309.16 | 3076.87 | 47.07 | -45.82 | 65.69 | 1.47 | 1.45 | 1.29 | | | | | | | | | | | | |
| | | | | | | | | | | | | - | | | | | | | | | | |
| | | | | | | | | | | | IMG : | 1 | | | | | | | | | | |

Let's take a closer look at the proximity screen (IMG 2)

| Droximity Resu | lts | | | | | | | × |
|----------------|-----------------------|--------------------|----------------|---------------|-------------|------------|------------|---|
| Reference Well | Big Well 1 (Reference | Well) | | | | | | |
| Start Depth | 3079.79 End | d Depth 3079.79 | | | | | | |
| Messages | 0 Warnings | 1 Errors | 0 | | | | | |
| Show Messages | Last Scan | Sep 07, 18:06:42 P | М | | | | | |
| Big Well | 1 (Reference Well) | Big Well 2 (Exi | isting Anti-co | llision well) | Big | Well 1 (Pi | an) | |
| | MD (m) | Distance To | HD To | SubSea To | Distance To | HD To | SubSea To | |
| | 3079.79 | 22.22 | 21.70 L | 4.76 Below | 4.57 | 4.41 R | 1.22 Above | |
| | | | IMG 2 | | | | | |

Column 1 -> Reference Well

• Contains the MD that corresponds to the **3079.79 MD** in Row 90 of the Reference well.

Column 2 -> Anti-collision well

- Distance To: The closest point (real or interpolated) in the Anti-collision well is **22.22m** from **3079.79MD** in the Reference Well
- HD To: The horizontal distance between the closest point (real or interpolated) in the Anti-collision well and **3079.79MD** in the Reference Well. In this case the HD is **21.70m** and **L** means the point in the Anti-collision well is **Left** of **3079.79MD**.
- SubSea To: The closest point (real or interpolated) in the Anti-collision well is 4.76m below the 3079.79MD in the Reference well

Column 2 -> Plan

- Distance To: The closest point (real or interpolated) in the Plan well is **4.57m** from **3079.79MD** in the Reference Well
- HD To: The horizontal distance between the closest point (real or interpolated) in the Plan well and **3079.79MD** in the Reference Well. In this case the HD is **4.41m** and **R** means the point in the Plan well is **Right** of **3079.79MD**.
- SubSea To: The closest point (real or interpolated) in the Plan well is 1.22m above the 3079.79MD in the Reference well

Important: The Proximity screen

- Can be placed on a 2nd monitor
- Can be configured by the DD to display several other proximity calculations (later in this document).
- Can display much more information about the survey point (INC, AZI, etc.) by placing the mouse curser over a value for a few seconds and wait for a popup screen (later in this document)

Next

- Add another survey row MD = 3089.40, INC = 9.83 and AZI = 308.55
- Click on the Proximity Icon in the tool bar (or F5 on Keyboard)

And the Proximity screen now displays the proximity numbers for 3089.40MD in the Reference well (IMG 3 and IMG 4)

| Con | spany: | Big Wet | (Referen | iny:D-Biet | 2 | 0 | h | • | | • | | Reference Well Start Depth | Big Well 1 (Referen 3069.40 p | ce Well) ind Depth 3089.40 | | | | | 0.0 |
|-----|-----------|------------|----------|------------|--------|-------------|------------|----------|---------|---------|-----------|-------------------------------|----------------------------------|-------------------------------|----------------|--------------|-------------|------------|------------|
| 00 | ation: | <u> </u> | | | | | | | | | | Show Messages | Last Scan | Sep 08, 12:15:07 F | M | | | | |
| Sec | tion calc | ulated on: | 315.6035 | | Cal | culation Me | ethod: Mir | nimum Cu | rvature | | | Big Well | 1 (Reference We | Big Well 2 (Ex | isting Anti-co | dision well) | Big | Well 1 (PI | an) |
| | Depth | Inc | Azimuth | TVD | North | East | Section | Dogleg | BidRate | Trnrate | Comment * | | MD (m |) Distance To | HD To | SubSea To | Distance To | HD To | SubSea To |
| | Meters | Degrees | Degrees | Meters | Meters | Meters | Meters | /30m | /30m | /30m | | | 3089.4 | 0 21.82 | 21.43 L | 4.05 Below | 4.52 | 4,441 | 0.83 Above |
| 68 | 2850.06 | 2.10 | 302.68 | 2858.96 | 31.74 | -25.09 | 40.23 | 0.89 | 0.84 | 8.71 | | | | | | | | | |
| 69 | 2869.69 | 2.80 | 302.05 | 2868.58 | 31.96 | -25.43 | 40.63 | 2.18 | 2.18 | 1.95 | | | | | | | | | |
| 70 | 2879.32 | 3.16 | 302.40 | 2878.20 | 32.23 | -25.86 | 41.12 | 1.12 | 1.12 | 1.09 | | | | | | | | | |
| 71 | 2888.46 | 3.15 | 306.47 | 2887.32 | 32.52 | -26.27 | 41.61 | 0.74 | 0.03 | 13.36 | | | | | | | | | |
| 72 | 2897.98 | 3.33 | 304.89 | 2896.83 | 32.83 | -26.71 | 42.14 | 0.63 | 0.57 | 4.98 | | | | | | | | | |
| 73 | 2907.61 | 3.53 | 305.35 | 2906.44 | 33.16 | -27.18 | 42.71 | 0.68 | 0.62 | 4.55 | | | | | | | | | |
| 74 | 2926.73 | 4.22 | 305.20 | 2925.52 | 33.92 | -28.23 | 43.98 | 1.09 | 1.08 | 1.80 | | | | | | | | | |
| 75 | 2936.20 | 4.69 | 306.17 | 2934.96 | 34.35 | -28.82 | 44.71 | 1.51 | 1.49 | 3.07 | | | | | | | | | |
| 76 | 2945.65 | 5 5.20 | 305.49 | 2944.37 | 34.83 | -29.48 | 45.51 | 1.63 | 1.62 | 2.16 | | | | | | | | | |
| π | 2955.19 | 5.52 | 306.67 | 2953.87 | 35.35 | -30.20 | 46.39 | 1.06 | 1.01 | 3.71 | | | | | | | | | |
| 78 | 2964.59 | 6.09 | 303.47 | 2963.22 | 35.90 | -30.98 | 47.32 | 2.09 | 1.82 | 10.21 | | | | | | | | | |
| 79 | 2974.22 | 6.34 | 305.22 | 2972.80 | 36.48 | -31.84 | 48.35 | 0.98 | 0.78 | 5.45 | | | | | | | | | |
| 80 | 2983.85 | 5 7.34 | 303.12 | 2982.36 | 37.13 | -32.79 | 49.47 | 3.21 | 3.12 | 6.54 | | | | | | | | | |
| 81 | 2993.47 | 8.06 | 303.94 | 2991.89 | 37.84 | -33.87 | 50.73 | 2.27 | 2.25 | 2.56 | | | | | | | | | |
| 82 | 3003.11 | 8.88 | 304.25 | 3001.43 | 38.63 | -35.04 | 52.12 | 2.66 | 2.55 | 0.96 | | | | | | | | | |
| 83 | 3012.59 | 9.76 | 305.41 | 3010.78 | 39.52 | -36.29 | 53.63 | 3.00 | 2.78 | 6.84 | | | | | | | | | |
| 84 | 3022.12 | 10.35 | 307.39 | 3020.16 | 40.52 | -37.63 | 55.28 | 1.93 | 1.85 | 3.08 | | | | | | | | | |
| 85 | 3031.81 | 10.33 | 308.15 | 3029.70 | 41.59 | -39.00 | 57.00 | 0.43 | 0.06 | 2.35 | 1 | | | | | | | | |
| 86 | 3041.50 | 10.57 | 309.09 | 3039.23 | 42.69 | -40.37 | 58.74 | 0.91 | 0.74 | 2.91 | | | | | | | | | |
| 87 | 3051.14 | 10.64 | 308.85 | 3048.70 | 43.80 | -41.75 | 60.51 | 0.26 | 0.22 | 0.75 | | | | | | | | | |
| 88 | 3060.61 | 10.65 | 308.70 | 3058.01 | 44.90 | -43.12 | 62.24 | 0.09 | 0.03 | 0.48 | 4 | | | | | | | | |
| 89 | 3070.29 | 10.49 | 308.75 | 3067.52 | 46.01 | -44.50 | 64.01 | 0.50 | 0.50 | 0.15 | | | | | | | | | |
| 90 | 3079.79 | 9 10.03 | 309.16 | 3076.87 | 47.07 | -45.82 | 65.69 | 1.47 | 1.45 | 1.29 | | | | | | | | | |
| 91 | 3089.40 | 9.83 | 308.56 | 3086.34 | 48.11 | -47.11 | 67.33 | 0.71 | 0.62 | 1.90 | | | | | | | | | |
| | | | 115 | | 2 | | | | | | • | 0 | | | | | | | |
| | | | | | | | | | | | IMG 3 | | | | | | | | |
| | | | | | | | | | | | INIG J | | | | | | | | |

| Proximity Resu | ılts | | | | | | |
|----------------|-----------------------|--------------------|-----------------|--------------|-------------|------------|------------|
| Reference Well | Big Well 1 (Reference | Well) | | | | | |
| Start Depth | 3089.40 End | d Depth 3089.40 | | | | | |
| Messages | 0 Warnings | 1 Errors | 0 | | | | |
| Show Messages | Last Scan | Sep 08, 12:15:07 P | М | | | | |
| Big Well | 1 (Reference Well) | Big Well 2 (Exi | isting Anti-col | lision well) | Big | Well 1 (Pi | an) |
| | MD (m) | Distance To | HD To | SubSea To | Distance To | HD To | SubSea To |
| | 3089.40 | 21.82 | 21.43 L | 4.08 Below | 4.52 | 4.44 L | 0.83 Above |
| | | | | | | | |
| | | | IMG 4 | | | | |

Next

- Add extrapolated point MD = 3099.4, INC = 9.62 and AZI = 307.92
- Click anywhere in ROW 91, hold mouse down and drag mouse to highlight cells in both rows 91 and EXT.
- Click on the Proximity Icon in the tool bar (or F5 on Keyboard)

The proximity screen now displays proximity information for 3089.4MD, 3099.40MD and 8 interpolated points in between (**IMG 5** and **IMG 6**)

| CV2 | rogramičana Politika | PathTocker | | | % | 01 | h 🌚 | e e | | | | Reference Well Big Well 1 (Reference | e Wel) | | | | | 0 0 |
|------|-------------------------|------------|------------|----------|----------|-------------|------------|------------|---------|---------|-----------|---|---------------------------|----------------|--------------|-------------|------------|------------|
| omp | any: Name: | Big Well | 1 (Referen | ce Well) | | | | | | | | Start Depth 3089.40 Er Messages 0 Warnings | d Depth 3099.40 Errors | 0 | | | | |
| Jua | JU11. | | | | | | | | | | | Show Messages 🔄 Last Scan | Sep 08, 12:21:59 F | M | | | | |
| icti | on calcul | lated on: | 315.6035 | | Cak | culation Me | sthod: Min | imum Cu | vature | | | Big Well 1 (Reference Well) | Big Well 2 (Ex | isting Anti-co | dision well) | Big | Well 1 (PI | lan) |
| | Depth | Inc | Azimuth | TVD | North | East | Section | Dogleg | BidRate | Trnrate | Comment * | (m) OM | Distance To | HD To | SubSea To | Distance To | HD To | SubSea To |
| | Meters | Degrees | Degrees | Meters | Meters | Meters | Meters | /30m | /30m | /30m | | 3089.40 | 21.82 | 21.43 L | 4 08 Below | 4.52 | 4.44 L | 0.83 Above |
| 9 | 2869.69 | 2.80 | 302.05 | 2858.58 | 31.96 | -25.43 | 40.63 | 2.18 | 2.18 | 1.96 | | 3090.40 | 21.78 | 21.39 L | 4.08 Below | 4,51 | 4.43L | 0.83 Above |
| 0 | 2879.32 | 3.16 | 302.40 | 2878.20 | 32.23 | -25.86 | 41.12 | 1.12 | 1.12 | 1.09 | | 3091.40 | 21.74 | 21.35 L | 4.07 Below | 4.00 | 4.431 | 0.83 Above |
| 1 | 2888.46 | 3.15 | 306.47 | 2887.32 | 32.52 | -26.27 | 41.61 | 0.74 | 0.03 | 13.36 | | 3032.40 | 21.70 | 21.321 | 4.06 Delow | 4.43 | 4.421 | 0.03 Above |
| 2 | 2897.98 | 3.33 | 304.89 | 2896.83 | 32.83 | -26.71 | 42.14 | 0.63 | 0.57 | 4.98 | | 1004.40 | 21.60 | 21.20 L | A 05 Balow | 447 | 4.401 | 0.83 Above |
| 3 | 2907.61 | 3.53 | 306.35 | 2906.44 | 33.16 | -27.18 | 42.71 | 0.68 | 0.62 | 4.55 | | 3095.40 | 21.59 | 21.211 | 4 04 Below | 4.45 | 4 391 | 0.82 Above |
| 4 | 2926.73 | 4.22 | 305.20 | 2925.52 | 33.92 | -28.23 | 43.98 | 1.09 | 1.08 | 1.80 | | 3096.40 | 21.55 | 21.17L | 4.04 Eelow | 4.45 | 4.37L | 0.82 Above |
| | 2036.20 | 4.69 | 306.17 | 2034.06 | 34.35 | -28.82 | 44.71 | 1.61 | 1.49 | 3.07 | | 3097.40 | 21.52 | 21.13L | 4 03 Below | 4.44 | 4.36 L | 0.82 Above |
| 8 | 2045.65 | 5.20 | 305.49 | 2044 37 | 34.83 | .20.48 | 45.51 | 1.63 | 1.62 | 2.16 | _ | 3098.40 | 21.48 | 21.10 L | 4.02 Below | 4.42 | 4.35 L | 0.82 Above |
| 7 | 2066 10 | 6.62 | 205.67 | 2062.07 | 26.36 | -20.20 | 46 20 | 1.00 | 1.04 | 2.74 | | 3099.40 | 21.44 | 21.06 L | 4.02 Below | 4.41 | 4.33 L | 0.82 Above |
| | 2004 60 | 6.00 | 303.47 | 200.3 22 | 26.00 | -30.00 | 47.32 | 2.00 | 1.01 | 10.24 | _ | | | | | | | |
| | 2004.00 | 6.00 | 305.41 | 2003.22 | 30.90 | 34.94 | 41.52 | 0.00 | 0.70 | EAE | | | | | | | | |
| | 2319.22 | 0.34 | 303.42 | 2972.00 | 30.40 | -31.84 | 40.30 | 0.90 | 0.76 | 0.40 | _ | | | | | | | |
| | 2983.85 | 7.34 | 303.12 | 2962.30 | 37.13 | -32.79 | 49.47 | 3.21 | 3.12 | 0.04 | | | | | | | | |
| | 2393.47 | 8.06 | 303.94 | 5331.99 | 31.84 | -33.87 | 50.73 | 2.27 | 2.25 | 2.00 | | | | | | | | |
| 1 | 3003.11 | 8.88 | 304.25 | 3001.43 | 38.63 | -35,04 | 52.12 | 2.56 | 2.55 | 0.96 | | | | | | | | |
| 2 | 3012.59 | 9.76 | 306.41 | 3010.78 | 39.52 | -36.29 | 53.63 | 3.00 | 2.78 | 5.84 | | | | | | | | |
| 1 | 3022.12 | 10.35 | 307.39 | 3020.16 | 40.52 | -37.63 | 55.28 | 1.93 | 1.86 | 3.08 | | | | | | | | |
| ţ | 3031.81 | 10.33 | 308.15 | 3029.70 | 41.59 | -39.00 | 57.00 | 0.43 | 0.06 | 2.35 | | | | | | | | |
| 6 | 3041.50 | 10.57 | 309.09 | 3039.23 | 42.69 | -40.37 | 58.74 | 0.91 | 0.74 | 2.91 | | | | | | | | |
| 7 | 3051.14 | 10.64 | 308.85 | 3048.70 | 43.80 | -41.75 | 60.51 | 0.26 | 0.22 | 0.75 | | | | | | | | |
| 8 | 3060.61 | 10.65 | 308.70 | 3058.01 | 44.90 | -43.12 | 62.24 | 0.09 | 0.03 | 0.48 | | | | | | | | |
| 9 | 3070.29 | 10.49 | 308.75 | 3067.52 | 46.01 | -44.50 | 64.01 | 0.50 | 0.50 | 0.15 | 1 | | | | | | | |
| 0 | 3079.79 | 10.03 | 309.16 | 3076.87 | 47.07 | -45.82 | 65.69 | 1.47 | 1.45 | 1.29 | | | | | | | | |
| 1 | 3089.40 | 9.83 | 308.55 | 3085.34 | 48.11 | -47.11 | 67.33 | 0.71 | 0.62 | 1.90 | | | | | | | | |
| | 3099 40 | | 307.92 | 3096.19 | 49.16 | 48/43 | 69.01 | 0.70 | 0.62 | | | | | | | | | |

The extrapolated 10m range shows the Reference well will get closer to both the Anti-collision well and the Plan well.

| | | | | | | | | | 1 | | | | | | |
|--|--|---|---|-------------------------|---------|---------------------------------------|-----------|--|---|--|--|---|--|---|--|
| Reference Well Big Well 1 (Refer | ence W | Vell) | | | | | | | | | | | | | |
| Start Depth 3089.40 | End D | Depth 3099.40 | | | | | | | | | | | | | |
| Messages 0 Warning | 1 | Errors | 0 | | | | | | | | | | | | |
| Show Messages 📃 Last Sca | n Sep | p 08, 12:21:59 PM | | | | | | | | | | | | | |
| Big Well 1 (Reference W | ell) | Big Well 2 (Exis | ting Anti-co | llision | well) | Big | Well 1 (F | Plan) | 1 | | | | | | |
| MD (| m) D | Distance To | HD To | SubS | Sea To | Distance To | HD To | SubSea To | | | | | | | |
| 3089 | .40 | 21.82 | 21.43 L | 4.08 | Below | 4.52 | 4.44 L | 0.83 Above | | | | | | | |
| 3090 | .40 | 21.78 | 21.39 L | 4.08 | Below | 4.51 | 4.43 L | 0.83 Above | | | | | | | |
| 3091 | .40 | 21.74 | 21.36 L | 4.07 | 7 Below | 4.50 | 4.43 L | 0.83 Above | | | | | | | |
| 3092 | .40 | 21.70 | 21.32 L | 4.06 | Below | 4.49 | 4.42 L | 0.83 Above | | | | | | | |
| 3093 | .40 | 21.66 | 21.28 L | 4.06 | Below | 4.48 | 4.41 L | 0.83 Above | | | | | | | |
| 3094 | .40 | 21.63 | 21.24 L | 4.05 | Below | 4.47 | 4.40 L | 0.83 Above | | | | | | | |
| 3090 | .40 | 21.09 | 21.21 L | 4.04 | Below | 4.4h | 4.391 | U.82 ADOVE | | | | | | | |
| 3097 | .40 | 21.53 | 21.13 L | 4.01 | Pi Pi | roximity Kesülts | | | | | | | | | |
| 3098 | .40 | 21.48 | 21.10 L | 4.02 | Refer | rence Well | Big Well | 1 (Reference | Well) | | | | | | |
| 3099 | .40 | 21 44 | 21.06 L | 4.02 | Ct-ret | Deeth | | End | D | 04.00 | _ | | | | |
| 0000 | | | | | JUDIC | Deptri . | 3003.40 | | Depth 30 | JJ.40 | | | | | |
| | | | | | Mes | sages (| 3005.40 | Wamings | Deptn 30 | From | n | | · · · · · | | |
| | | IIV | 1G 6 | | Mes | sages (|) 1 | Warnings | Depth 30 | Errors | 0 | / | | | |
| | | IN imity so | 1G 6 | | Mess | sages (v Messages [|) 1 | Warnings | Gep 08, 12: | Errors 21:59 PM | D | | | | |
| Survey Data in pi | oxi | imity sc | ^{1G 6} reen | | Mess | sages (v Messages [Big Well 1 | (Refere | Wamings | Sep 08, 12: Big Wel | Errors 21:59 PM | 0 ing Ana-col | lision well) | Big | Well 1 (Pl | an) |
| Survey Data in pr | 'OX i | IN imity sc | IG 6 reen | | Show | sages (v Messages [Big Well 1 |) (Refere | Wamings Last Scan S ence Well) MD (m) | Sep 08, 12: Big Wel | Errors 21:59 PM 12 (Exist e To | D ing Ana-col HD To | lision well) SubSea To | Big Distance To | Well 1 (Pl HD To | an) SubSea To |
| Survey Data in pr folding the mouse curse | 'OX İ r ove | IN imity sc er a MD points | IG 6 reen nt or | at | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan Ence Well) MD (m) 3089.40 | Big Wel Distance | Errors 21:59 PM 12 (Exist To 1.82 | 0 ing And-col HD To 21.43 L | lision well) SubSea To 4.08 Below | Big Distance To 4.52 | Well 1 (Pl HD To 4.44 L | an) SubSea To 0.83 Above |
| Survey Data in pr folding the mouse curse Distance To point will dis | 'OX i r ove play | IN imity sc er a MD point a pop up sc pation | IG 6 reen nt or creen tha | at | Show | sages (v Messages [Big Well 1 | (Refere | Warnings Last Scan Ence Well) MD (m) 3089.40 3090.40 | Big Well Distance 2 | Errors 21:59 PM 12 (Exist 70 1.82 1 HR7 | 0 ing Ana-col HD To 21.43 L | lision well) Sub Sea To 4.08 Below 4.08 Below | Big Distance To 4.52 4.51 | Well 1 (Pl HD To 4.44 L 4.43 L | an) SubSea To 0.83 Above 0.83 Above |
| Survey Data in pr Holding the mouse curse Distance To point will dis hows relevant survey in | 'OX r ove play form | IN imity sc er a MD point a pop up sc nation. | IG 6 reen nt or creen tha | ət | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan (S ence Well) MD (m) 3089.40 3090.40 3091.40 | Big Wel Distance 2 2 2 | Errors 21:59 PM 12 (Exist 70 1.82 1 HRZ 1 MD | 0 ing Ara-col HD To 21.43 L : No : 3095.00 | lision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below | Big Distance To 4.52 4.51 4.50 | Well 1 (Pl HD To 4.44 L 4.43 L 4.43 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above |
| Survey Data in pr Holding the mouse curse Distance To point will dis shows relevant survey in | r ove play form | IN imity sc er a MD poin a pop up sc nation. | IG 6 reen nt or creen tha | at | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan 3 ence Well) MD (m) 3089.40 3090.40 3091.40 3092.40 | Big Well Distance 2 2 2 2 | Errors 21:59 PM 21:59 PM 2 (Exist To 1.82 1 HRZ 1 MD 1 NC 4 77 | 0 ing Arta-col HD To 21.43 L : No : 3095.00 : 12.02 2140 22 | lision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below | Big Distance To 4.52 4.51 4.50 4.49 | Well 1 (PI HD To 4.44 L 4.43 L 4.43 L 4.42 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above |
| Survey Data in pr Holding the mouse curse Distance To point will dis shows relevant survey in | r ove play form | IN imity sc er a MD point a pop up sc nation. | IG 6 reen nt or creen tha | ət | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan (Sence Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 | Big Wel Distance 2 2 2 2 2 2 | Errors 21:59 PM 21:59 PM 2 (Exist To 1.82 1 HRZ 1 MD 1 NC 1 AZI 1 TVD | 0 ing Apa-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 | lision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.06 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 | Well 1 (Pl HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above |
| Survey Data in pr Holding the mouse curse Distance To point will dis shows relevant survey in MG 7 shows a popup scr | r ove play form | IN imity sc er a MD poin a pop up sc nation. activated b | IG 6 reen nt or creen tha | at | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan S ence Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3094.40 | Big Well Distance 2 2 2 2 2 2 2 2 2 | Errors 21:59 PM 21:59 PM 2 (Exist 7 To 1.82 1 HRZ 1 MD 1 NC 1 AZI 1 TVD 5 S | 0 ing And-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 | Iision well) SubSea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.06 Below 4.05 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 4.47 | Well 1 (PI HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above |
| Survey Data in pro- Folding the mouse curse Distance To point will dis shows relevant survey in MG 7 shows a popup scr he mouse over 21.82 in | r ove play form reen the f | IN imity sc er a MD poin a pop up sc nation. activated b first row. Th | IG 6 reen nt or creen tha y holding | at g | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan (S mce Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3094.40 2095.40 | Big Well Distance 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Errors 21:59 PM 21:59 PM 2 (Exist To 1.82 1 HRZ 1 HRZ 1 NC 1 AZI 1 TVD 1 SS 6 N 1 GE | 0 ing Ana-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 : 32.36 : 22.57 | Iision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.06 Below 4.05 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 4.47 4.46 | Well 1 (P) HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L 4.29 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above |
| Survey Data in pro- folding the mouse curse Distance To point will dis shows relevant survey in MG 7 shows a popup scr he mouse over 21.82 in nformation is about the | r ove play form een the f | IN imity sc er a MD point a pop up sc nation. activated b first row. Th est point in | IG 6 reen nt or creen tha y holding he survey the Anti- | at g | Show | sages (v Messages [Big Well 1 | (Refere | Warnings Last Scan (S ence Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3094.40 3095.40 | Big Well Distance 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Errors 21:59 PM 21:59 PM 2 (Exist 7 0 1.82 1 HRZ 1 MD 1 NC 4 AZ1 1 TVD 5 S 6 N 1 GE | 0 ing Apa-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 : 32.36 : -32.57 | Iision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.06 Below 4.05 Below 4.04 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 4.47 4.46 | Well 1 (PI HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L 4.39 L 4.27 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above |
| Survey Data in pro- Folding the mouse curse Distance To point will dis shows relevant survey in MG 7 shows a popup scr he mouse over 21.82 in nformation is about the collision well. Some of th | r ove play form the f close is in | IN imity sc er a MD poin a pop up sc nation. activated b first row. Th est point in iformation i | IG 6 reen nt or creen tha y holding the survey the Anti- s | at g | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan 3 mce Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3093.40 3095.40 3096.40 | Big Well Distance 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Errors 21:59 PM 2 (Exist To 1.82 1 HRZ 1 NC 1 AZI 1 TVD 2 SS 6 N 1 GE 1 IncTo | 0 ing Arta-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 : 32.36 : -32.57 : 79.21 | Iision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.06 Below 4.05 Below 4.04 Below 4.04 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 4.47 4.46 4.45 | Well 1 (PI HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L 4.39 L 4.37 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.82 Above 0.82 Above |
| Survey Data in pro- folding the mouse curse Distance To point will dis shows relevant survey in MG 7 shows a popup scr he mouse over 21.82 in nformation is about the collision well. Some of the configurable by the DD | r ove play form the f close is in Ther | IN imity sc er a MD point a pop up sc nation. activated b first row. Th est point in formation is the is more in | IG 6 reen nt or creen tha y holding the survey the Anti- s | at g | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan (S ence Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3094.40 3095.40 3095.40 3097.40 | Big Wel Distance 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Errors 21:59 PM 2 (Exist To 1.82 1 HRZ 1 MD 1 INC AZI 1 TVD SS GN 1 GE 1 IncTo 1 AziTo ToolE | 0 ing Arta-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 : 32.36 : -32.57 : 79.21 : 137.28 : -171.42 | Iision well) Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.06 Below 4.05 Below 4.04 Below 4.04 Below 4.03 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 4.47 4.46 4.45 4.44 | Well 1 (Pl HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L 4.39 L 4.37 L 4.36 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.82 Above 0.82 Above |
| Survey Data in pro- Folding the mouse curse Distance To point will dist shows relevant survey in MG 7 shows a popup scr he mouse over 21.82 in nformation is about the collision well. Some of the configurable by the DD. | r over play form the f close nis in There | IN imity sc er a MD point a pop up sc nation. activated b first row. Th est point in formation is re is more in par in this doc | IG 6 reen nt or creen that y holding the survey the Anti- s iformatic | at g , - on | Show | sages (v Messages [Big Well 1 | (Refere | Wamings Last Scan S ence Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3095.40 3096.40 3096.40 3097.40 3098.40 | Depth 30 Sep 08, 12: Big Wel Distance 2 2 2 | Errors 21:59 PM 2 (Exist 7 0 1.82 1 HRZ 1 MD 1 NC 1 AZI 1 TVD 5 S 6 N 1 GE 1 IncTo 1 AziTo 7 colF Y Offto | 0 ing Apu-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 : 32.36 : -32.57 : 79.21 : 137.28 : -171.42 : -21.58 | Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.05 Below 4.04 Below 4.03 Below | Big Distance To 4.52 4.51 4.50 4.49 4.49 4.48 4.47 4.46 4.45 4.45 4.44 | Well 1 (Pl HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L 4.39 L 4.37 L 4.36 L 4.35 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.82 Above 0.82 Above 0.82 Above |
| Survey Data in pro- folding the mouse curse Distance To point will dis shows relevant survey in MG 7 shows a popup scr he mouse over 21.82 in information is about the collision well. Some of the configurable by the DD. on configuring the popup | r ove play form the f close is in Ther) late | IN imity sc er a MD point a pop up sc nation. activated b first row. Th est point in formation is re is more in er in this door | IG 6 reen nt or creen tha be survey the Anti- s iformatic cument. | at g , - on | Show | Big Well 1 | (Refere | Wamings Last Scan (mce Well) MD (m) 3089.40 3090.40 3091.40 3092.40 3093.40 3095.40 3095.40 3095.40 3097.40 3098.40 3099.40 | Big Well Distance 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | Errors 21:59 PM 2 (Exist To 1.82 1 HRZ 1 HRZ 1 NC 1 AZI 1 TVD 2 SS 1 GR 1 IncTo 1 AziTo 1 ColF 2 Y Offto 2 Y Offto | 0 ing Arta-col HD To 21.43 L : No : 3095.00 : 12.02 : 314.82 : 3090.42 : -2109.12 : 32.36 : -32.57 : 79.21 : 137.28 : -171.42 : -21.58 : -3.25 | Sub Sea To 4.08 Below 4.08 Below 4.07 Below 4.06 Below 4.05 Below 4.04 Below 4.03 Below 4.04 Below 4.03 Below 4.04 Below 4.02 Below | Big Distance To 4.52 4.51 4.50 4.49 4.48 4.47 4.46 4.45 4.45 4.44 4.42 4.41 | Well 1 (P) HD To 4.44 L 4.43 L 4.43 L 4.42 L 4.41 L 4.40 L 4.39 L 4.37 L 4.36 L 4.35 L 4.33 L | an) SubSea To 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.83 Above 0.82 Above 0.82 Above 0.82 Above 0.82 Above |

Set Up

PathTracker lets a DD open 30 or more Survey Files at a time. The example above requires 3 files to be opened.

- A Reference Well
- An Anti-collision well
- A Plan

Step 1: Open the 3 wells at the same time. This can be done by selecting FILE -> OPEN SURVEY FILE from the main menu and highlighting the required files. Clicking the OPEN command will open the 3 survey files at the same time. (See **IMG 8**)

Step 2: Minimize the plan and anti-collision wells. You can do this by selecting WINDOW->TILE VERTICAL from the main menu and clicking the "-" in the top right corner of both wells.

Step 3: Use the mouse to resize the Actual / Drill well so it is big enough to see all columns.

| 16 C 19 C | | | | | 1.00 | 100 |
|--|---------------|---------------------------------|--------------------------|---------------------|------------|-----|
| Jrganize 🔻 New | folder | | | 822 | • | |
| 📃 Recent Places | * | Name | | Date modified | Туре | |
| - | | HantiCollision.sr6 | | 12/01/2011 4:55 PM | SR6 File | |
| Libraries | | 🔚 Drill.sr6 | | 13/11/2010 8:08 PM | SR6 File | |
| I lony | | Plan.sr6 | | 13/11/2010 5:15 PM | SR6 File | |
| New Library Pictures Videos Homegroup | 111 m | | | | | |
| New Library Pictures Videos Computer Windows7_OS (DVD RW Drive () | E C | 1 | 1 | | | |
| New Library Pictures Videos Homegroup Computer Windows7_OS (DVD RW Drive () | C File nar | ne: "Plan.srő" "AntiCollision.s | rr ⊧r6" "Drill.sr6" ▼ | PathTracker 6.0 Fil | es (*.srb) | |

| Pethnacer Preshnacer Pre | Comment * | Step 4: Navigate to the bottom of the drill file. Highlight at least one column in the last row (IMG 9) and click on the Proximity / Anti-collision Icon on the tool bar (or F5 on keyboard). The Proximity setup screen will appear (IMG 10). This setup screen automatically displays the first time you activate the proximity module. |
|---|---|---|
| IMG 9 Please ensure (1) Select Reference Well contains the Drill or Actual well (2) Select Offset Well contains the Plan well and anti-collision wells <u>and</u> these wells are highlighted Please note the Start Depth and End Depth contain the starting MD and ending MD of the range you selected in step 4. In this case only row 90 was selected so the start and end depths are the same (IMG 10) | PathTracker Proximity Setup Select Wells Settings More Data Messages (1) Select Reference Well Big Well 1 (Reference Well) (2) Select Offset Wells Big Well 2 (Existing Anti-collision well) Big Well 1 (Plan) Hold down ctrl or shift keys before clicking to sele | Options Start Depth 3099.40 End Depth 3099.40 ect multiple wells |
| Step 6: Select the Settings tab (IMG 12) | | <u>ок</u> <u>Help</u> <u>Apply</u> IMG 10 |

| | More Data | Messages | Options |
|--|--------------|-------------|---|
| User Defined Settin | ngs | | |
| Offset Wells | | | When Scanning from Survey Screen |
| Warning Distance | 15 | 6.00 | Scan selected range. |
| Critical Warning Dist | ance 2. | 50 | Always scan last survey line. |
| Used on Display Tab data. | o when showi | ing scanned | Always scan range of last two survey lines. |
| | | | |
| Interpolation Interval 1.00 | |) | |
| Interpolation Interval 1.00 Restore System Def | faults |) | Reload Defaults Set as Defaults |

Please ensure

- When Scanning from Survey Screen has Scan selected range selected. This has to be chosen so you can scan a range by selecting one or more rows from the Reference well. The first and last highlighted rows will set the start and end depths for scanning.
- Interpolation value is set. As shown in IMG 6, an interpolation value of 1 will produce proximity numbers every 1 meter for a selected range scan. Increasing this number to 5 will result in calculating the proximity values every 5 meters for a given scan range.

| elect Wells | Settings | More Data | Messages | Options | | | | | |
|-----------------------------|--|---|---|---|---|---------------------------------------|--|------------------------------|-------------|
| Select (| options | | | | | | | | |
| Screen | Popup | | Screen Popup | - Display info in Display info in | the grid the Popup | | | | |
| 1 | | 3D distance bet | ween closest | offset point and | reference point. | | | | |
| | | 2D or Horizonta | distance (HD |) between close | st offset point an | d reference poi | nt. (Left or Right) | | |
| | | Vertical distance | e remaining be | tween SubSea | values of closest | offset point and | d reference point. | (Above or | Below) |
| | | North distance r | emaining betw | veen North value | es of closest offs | et point and refe | erence point. (No | rth or South |) |
| (T) | | East distance re | maining betw | een East values | of closest offset | point and refere | ence point. (East | or West) | |
| | | Azimuth from the | e closest offse | t point to the ref | erence point. | | | | |
| 10 | | Inclination from | the closest off | set point to the r | eference point. | | | | |
| (FT) | | Toolface and X | Y offsets from | n reference point | to closest offset | point | | | |
| A user selecte can be | will select ed range of an actua | a reference wel in the reference point, an interp | I and one or m well, a scan w olated point or | ore offset wells. Ill find the close a horizontal poi | For each point st point on each nt. | (actual, interpol offset well. The | lated or extrapola closest point on | ted) within a each offsel | a t well |
| Resto | re System | Defaults | | Reload | Defaults | | Set a | as Defaults | |
| | | | | | | ок | н | elp | Apply |

Use this screen (**IMG 13**) to select the proximity values you want to display in the proximity screen and proximity popup. These settings can be "Set as Defaults" so once configured, they are not required to be changed unless the user chooses to do so.

Step 8: Click OK

Step 9: The proximity setup screen can be modified anytime by right clicking on the Proximity Screen and selecting Setup. (IMG 14)

| eference Woll | Big Well | 1 (Reference | e Well) | | | | | | | | | |
|---------------|----------|--------------|---------|-------------------|--------|-----------------|-----------------------|--------|--------|------------|--------|---------|
| | 2070.70 | - (nererenc | | 0000.40 | | | | | | | | |
| tan Depth | 30/9./9 | Er | d Depth | 3099.40 | _ | | | | | | | |
| Messages | 0 | wamings | | Errors | 0 | | | | | | | |
| Show Messages | | Last Scan | Sep 09, | 12:30:35 P | М | | | | | | | |
| Big Well | 1 (Refer | ence Well) | Big V | Vell 2 (Ex | isting | J Anti-c | ollision well) | | Big \ | Nell 1 (Pl | an) | |
| | | MD (m) | Dista | nce To | | HD To | SubSea To | Distar | nce To | HD T | īo Sut | Sea To |
| | | 3079.79 | | 22.22 | | 21.70 L | 4.76 Below | | 4.57 | 4.41 | R 1.2 | 2 Above |
| | | 3080.79 | | 22.17 | | 21.66 L | 4.75 Below | | 4.57 | 4.40 | R 1.2 | 2 Above |
| | | 3081.79 | | 22.13 | | 21 621 | A 74 Polow | | 4.57 | 4.40 | R 1.2 | 2 Above |
| | | 3082.79 | | 22.09 | | | setup Defecto Dete | | 4.57 | 4.40 | R 1.2 | 2 Above |
| | | 3083.79 | | 22.04 | | | Kerresh Data | | 4.57 | 4.40 | R 1.2 | 2 Above |
| | | 3084.79 | | 22.00 | | | Copy to Cipeoard | | 4.56 | 4.40 | R 1.2 | 2 Above |
| | | 3085.79 | | 21.96 | | · · | ameroximity Help | | 4.56 | 4.39 | R 1.2 | 2 Above |
| | | 3086.79 | | 21.92 | | 21.41 L | 4.70 Below | | 4.56 | 4.39 | R 1.2 | 2 Above |
| | | 3087.79 | | 21.88 | | 21.37 L | 4.69 Below | | 4.55 | 4.39 | R 1.2 | 2 Above |
| | | 3088.79 | | 21.84 | | 21.33 L | 4.69 Below | | 4.55 | 4.38 | R 1.2 | 2 Above |
| | | 3089.40 | | 21.82 | | 21.43 L | 4.08 Below | | 4.52 | 4.44 | L 0.8 | 3 Above |
| | | 3089.79 | | 21.80 | | 21.29 L | 4.68 Below | | 4.54 | 4.37 | R 1.2 | 2 Above |
| | | 3090.79 | | 21.76 | | 21.25 L | 4.67 Below | | 4.53 | 4.37 | R 1.2 | 2 Above |
| | | 3091.79 | | 21.72 | | 21.22 L | 4.66 Below | | 4.52 | 4.52 | L 0.2 | 3 Above |
| | | 3092.79 | | 21.68 | | 21.18 L | 4.66 Below | | 4.52 | 4.51 | L 0.2 | 3 Above |
| | | 3093.79 | | 21.65 | | 21.14 L | 4.65 Below | | 4.50 | 4.50 | L 0.2 | 3 Above |
| | | 3094.79 | | 21.61 | | 21.10 L | 4.64 Below | | 4.49 | 4.49 | L 0.2 | 2 Above |
| | | 3095.79 | | 21.57 | | 21.07 L | 4.64 Below | | 4.48 | 4.48 | L 0.2 | 2 Above |
| | | 3096.79 | | 21.54 | | 21.03 L | 4.63 Below | | 4.47 | 4.46 | L 0.2 | 2 Above |
| | | 3097.79 | | 21.50 | | 21.00 L | 4.63 Below | | 4.46 | 4.45 | L 0.2 | 2 Above |
| | | 3098 79 | | 21.47 | | 20.961 | 4 62 Below | | 4 44 | 4 44 | 1 02 | 1 Above |

To remove your name from our mailing list, please <u>click here</u>

Questions or comments E-mail us at customer.service@PathTracker.com or call 403-261-6662

Copyright ©1998-2014 1429275 Alberta Corp.

Please visit us at <u>www.pathtracker.com</u> for additional information.