

Rush 4-65 29-30 2AH Plan #0 Anti-Collision Summary Report

Analysis Date-24hr Time: June 23, 2020 - 15:44
Client: Crestone Peak Resources
Field: CO, Arapahoe County (NAD 83 CZ)
Structure: Crestone Peak 28-04S-65W (Rush North Pad)
Slot: Rush 4-65 29-30 2AH
Well: Rush 4-65 29-30 2AH
Borehole: Original Hole
Scan MD Range: 0.00ft - 18015.78ft

Analysis Method: 3D Least Distance
Reference Trajectory: Rush 4-65 29-30 2AH Plan #0 (Def Plan)
Depth Interval: Every 10.00 Measured Depth (ft)
Rule Set: D&M AntiCollision Standard S002 v5.1/5.2
Min Pts: All local minima indicated.
Version / Patch: 2.10.810.1
Database \ Project: localhost\drilling-Colorado

Trajectory Error Model: ISCSWA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

Offset Selection Criteria

Wellhead distance scan: Not performed!
 Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans
 - All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

| Offset Trajectory | Separation | | | Sep. Fact. | Controlling Rule | Reference Trajectory | | Risk Level | | | Alert | Status |
|-------------------|------------|----------|----------|------------|------------------|----------------------|---------|------------|-------|-------|-------|--------|
| | Ct-Ct (ft) | MAS (ft) | EOU (ft) | | | Dev. (ft) | MD (ft) | TVD (ft) | Alert | Minor | | |

Results highlighted: Sep-Factor separation <= 1.50 ft

| Cottonwood Creek 4-65 28-27 2AH Plan #0 (Def Plan) | | | | | | | | | | | |
|---|---------|-------|---------|---------|----------|----------------|----------|---------|-----------------|--|---------------|
| | 24.91 | 20.12 | 23.93 | 4.79 | N/A | MAS = 6.13 (m) | 0.00 | 0.00 | CtCt<=15m<15.00 | | Warning Alert |
| | 24.91 | 20.12 | 23.92 | 4.79 | 10769.47 | MAS = 6.13 (m) | 28.00 | 28.00 | | | Enter Alert |
| | 24.91 | 20.12 | 22.82 | 4.79 | 21.57 | MAS = 6.13 (m) | 240.00 | 240.00 | | | WRP |
| | 25.08 | 20.12 | 22.51 | 4.96 | 15.16 | MAS = 6.13 (m) | 330.00 | 330.00 | | | MinPts |
| | 30.85 | 20.12 | 27.12 | 10.73 | 10.94 | MAS = 6.13 (m) | 540.00 | 539.99 | | | MINPT-O-EOU |
| | 48.56 | 20.12 | 43.71 | 28.44 | 12.31 | MAS = 6.13 (m) | 730.00 | 729.55 | CtCt<=15m>15.00 | | MinPt-O-SF |
| | 781.54 | 54.93 | 744.59 | 726.61 | 21.70 | OSF1.50 | 7180.00 | 7129.15 | | | Exit Alert |
| | 445.20 | 58.51 | 405.87 | 386.69 | 11.58 | OSF1.50 | 7860.00 | 7721.26 | | | MinPt-O-SF |
| | 445.26 | 58.59 | 405.87 | 386.66 | 11.57 | OSF1.50 | 7870.00 | 7727.37 | | | MinPt-CtCt |
| | 445.50 | 58.65 | 406.07 | 386.85 | 11.56 | OSF1.50 | 7880.00 | 7733.38 | | | MinPts |
| | 9790.17 | 57.09 | 9751.78 | 9733.08 | 261.72 | OSF1.50 | 18015.78 | 7875.00 | | | MinPt-O-SF |
| | | | | | | | | | | | TD |

| Cottonwood Creek 4-65 28-27 1CH Plan #0 (Def Plan) | | | | | | | | | | | |
|---|---------|-------|---------|---------|--------|----------------|----------|---------|-----------------|--|---------------|
| | 25.06 | 20.22 | 24.07 | 4.83 | N/A | MAS = 6.16 (m) | 0.00 | 0.00 | CtCt<=15m<15.00 | | Warning Alert |
| | 25.04 | 20.22 | 24.05 | 4.82 | N/A | MAS = 6.16 (m) | 28.00 | 28.00 | | | Enter Alert |
| | 25.04 | 20.22 | 22.89 | 4.82 | 20.64 | MAS = 6.16 (m) | 250.00 | 250.00 | | | WRP |
| | 25.18 | 20.22 | 22.74 | 4.96 | 16.56 | MAS = 6.16 (m) | 300.00 | 300.00 | | | MinPts |
| | 44.81 | 20.22 | 39.20 | 24.59 | 9.47 | MAS = 6.16 (m) | 820.00 | 818.97 | CtCt<=15m>15.00 | | MINPT-O-EOU |
| | 49.05 | 20.22 | 43.04 | 28.82 | 9.58 | MAS = 6.16 (m) | 880.00 | 878.50 | | | MinPt-O-SF |
| | 684.30 | 59.14 | 644.55 | 625.16 | 17.62 | OSF1.50 | 7340.00 | 7287.37 | | | Exit Alert |
| | 317.34 | 63.92 | 274.40 | 253.43 | 7.54 | OSF1.50 | 8020.00 | 7805.26 | | | MinPt-O-SF |
| | 317.38 | 64.03 | 274.37 | 253.36 | 7.53 | OSF1.50 | 8030.00 | 7809.49 | | | MinPt-CtCt |
| | 317.69 | 64.10 | 274.63 | 253.59 | 7.53 | OSF1.50 | 8040.00 | 7813.59 | | | MinPts |
| | 9780.45 | 62.33 | 9738.57 | 9718.12 | 239.10 | OSF1.50 | 18015.78 | 7875.00 | | | MinPt-O-SF |
| | | | | | | | | | | | TD |

| Rush 4-65 29-30 1CH Plan #0 (Def Plan) | | | | | | | | | | | |
|---|--------|--------|--------|--------|-------|-----------------|----------|---------|----------|--|---------------|
| | 49.99 | 32.81 | 49.00 | 17.18 | N/A | MAS = 10.00 (m) | 0.00 | 0.00 | | | Warning Alert |
| | 49.95 | 32.81 | 48.96 | 17.14 | N/A | MAS = 10.00 (m) | 28.00 | 28.00 | | | Surface |
| | 49.94 | 32.81 | 46.42 | 17.14 | 19.26 | MAS = 10.00 (m) | 470.00 | 470.00 | | | WRP |
| | 50.57 | 32.81 | 45.83 | 17.76 | 13.21 | MAS = 10.00 (m) | 670.00 | 669.78 | | | MinPts |
| | 59.56 | 32.81 | 52.63 | 26.75 | 9.85 | MAS = 10.00 (m) | 1020.00 | 1017.41 | | | MINPT-O-EOU |
| | 526.90 | 59.88 | 486.65 | 467.02 | 13.39 | OSF1.50 | 7300.00 | 7248.08 | | | MinPt-O-SF |
| | 604.87 | 182.40 | 482.94 | 422.47 | 4.99 | OSF1.50 | 10970.00 | 7875.00 | OSF<5.00 | | Enter Alert |
| | 604.87 | 539.68 | 244.76 | 65.19 | 1.68 | OSF1.50 | 18010.00 | 7875.00 | | | MinPt-CtCt |
| | 604.87 | 539.98 | 244.55 | 64.89 | 1.68 | OSF1.50 | 18015.78 | 7875.00 | | | MinPts |

| Rush 4-65 29-30 2CH Plan #0 (Def Plan) | | | | | | | | | | | |
|---|--------|--------|--------|--------|----------|-----------------|----------|---------|----------|--|---------------|
| | 49.95 | 32.81 | 48.96 | 17.14 | N/A | MAS = 10.00 (m) | 0.00 | 0.00 | | | Warning Alert |
| | 49.95 | 32.81 | 48.96 | 17.14 | 11019.76 | MAS = 10.00 (m) | 28.00 | 28.00 | | | Surface |
| | 49.95 | 32.81 | 46.53 | 17.14 | 20.14 | MAS = 10.00 (m) | 450.00 | 450.00 | | | WRP |
| | 50.05 | 32.81 | 46.41 | 17.24 | 18.46 | MAS = 10.00 (m) | 490.00 | 490.00 | | | MinPts |
| | 147.70 | 32.81 | 134.67 | 114.89 | 12.19 | MAS = 10.00 (m) | 2000.00 | 1989.73 | | | MINPT-O-EOU |
| | 553.39 | 55.82 | 515.85 | 497.57 | 15.11 | OSF1.50 | 7300.00 | 7248.08 | | | MinPt-O-SF |
| | 604.11 | 182.27 | 482.26 | 421.84 | 4.99 | OSF1.50 | 10870.00 | 7875.00 | OSF<5.00 | | Enter Alert |
| | 604.37 | 546.64 | 239.62 | 57.74 | 1.68 | OSF1.50 | 18015.78 | 7875.00 | | | MinPts |

| Rush 4-65 29-30 1AH Plan #0 (Def Plan) | | | | | | | | | | | |
|---|---------|--------|---------|---------|-------|-----------------|----------|---------|----------|--|---------------|
| | 100.15 | 32.81 | 99.17 | 67.34 | N/A | MAS = 10.00 (m) | 0.00 | 0.00 | | | Warning Alert |
| | 100.02 | 32.81 | 99.04 | 67.22 | N/A | MAS = 10.00 (m) | 28.00 | 28.00 | | | Surface |
| | 100.02 | 32.81 | 97.89 | 67.22 | 85.89 | MAS = 10.00 (m) | 250.00 | 250.00 | | | WRP |
| | 100.11 | 32.81 | 97.78 | 67.30 | 73.98 | MAS = 10.00 (m) | 280.00 | 280.00 | | | MinPts |
| | 293.38 | 32.81 | 279.36 | 260.57 | 22.43 | MAS = 10.00 (m) | 2000.00 | 1989.73 | | | MINPT-O-EOU |
| | 1100.29 | 62.89 | 1058.03 | 1037.40 | 26.63 | OSF1.50 | 7300.00 | 7248.08 | | | MinPt-O-SF |
| | 1117.49 | 63.84 | 1074.60 | 1053.65 | 26.65 | OSF1.50 | 7410.00 | 7355.14 | | | MinPt-O-SF |
| | 1151.03 | 65.64 | 1106.94 | 1085.39 | 26.68 | OSF1.50 | 7610.00 | 7536.56 | | | MinPt-O-SF |
| | 1194.54 | 81.47 | 1139.90 | 1113.07 | 22.24 | OSF1.50 | 8500.00 | 7875.00 | | | MinPt-CtCt |
| | 1197.64 | 360.11 | 957.23 | 837.53 | 5.00 | OSF1.50 | 14390.00 | 7875.00 | OSF<5.00 | | Enter Alert |
| | 1199.54 | 546.87 | 834.63 | 652.67 | 3.29 | OSF1.50 | 18015.78 | 7875.00 | | | MinPts |

| Rush 4-65 29-30 3AH MWD 0' to 15645' - PR (Def Survey) | | | | | | | | | | | |
|---|---------|--------|---------|---------|---------|-----------------|----------|---------|--|--|---------------|
| | 1426.23 | 32.81 | 1424.21 | 1393.42 | 6996.13 | MAS = 10.00 (m) | 0.00 | 0.00 | | | Warning Alert |
| | 1425.53 | 32.81 | 1423.25 | 1392.73 | 2994.14 | MAS = 10.00 (m) | 28.00 | 28.00 | | | Surface |
| | 1412.58 | 32.81 | 1407.66 | 1379.77 | 453.24 | MAS = 10.00 (m) | 530.00 | 529.99 | | | WRP |
| | 1412.63 | 32.81 | 1407.59 | 1379.82 | 437.78 | MAS = 10.00 (m) | 550.00 | 549.98 | | | MinPts |
| | 1575.39 | 32.81 | 1561.07 | 1542.58 | 123.78 | MAS = 10.00 (m) | 2340.00 | 2327.07 | | | MINPT-O-EOU |
| | 1643.72 | 32.81 | 1628.69 | 1610.91 | 122.31 | MAS = 10.00 (m) | 2930.00 | 2912.44 | | | MinPt-O-SF |
| | 1642.96 | 32.81 | 1627.59 | 1610.15 | 119.27 | MAS = 10.00 (m) | 3130.00 | 3110.88 | | | MinPt-O-SF |
| | 1350.35 | 72.22 | 1301.56 | 1278.12 | 28.77 | OSF1.50 | 8400.00 | 7875.00 | | | MinPt-CtCt |
| | 1349.05 | 109.41 | 1275.46 | 1239.64 | 18.80 | OSF1.50 | 8980.00 | 7875.00 | | | MinPt-CtCt |
| | 1350.26 | 113.25 | 1274.11 | 1237.00 | 18.17 | OSF1.50 | 9070.00 | 7875.00 | | | MINPT-O-EOU |
| | 1355.30 | 119.29 | 1275.13 | 1236.01 | 17.30 | OSF1.50 | 9190.00 | 7875.00 | | | MinPt-O-ADP |
| | 1361.31 | 125.33 | 1277.12 | 1235.98 | 16.52 | OSF1.50 | 9290.00 | 7875.00 | | | MinPt-O-ADP |
| | 1316.83 | 323.44 | 1100.54 | 993.38 | 6.14 | OSF1.50 | 11800.00 | 7875.00 | | | MinPt-CtCt |

...Rush 4-65 29-30 2AH\Original Hole\Rush 4-65 29-30 2AH Plan #0

| Offset Trajectory | Separation | | | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory | | Risk Level | | | Alert | Status |
|--|------------|----------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|----------|---------------|
| | Ct-Ct (ft) | MAS (ft) | EOU (ft) | | | | MD (ft) | TVD (ft) | Alert | Minor | Major | | |
| | 1313.13 | 396.10 | 1048.41 | 917.03 | 4.99 | OSF1.50 | 12690.00 | 7875.00 | | | | OSF<5.00 | Enter Alert |
| | 1254.23 | 486.56 | 929.24 | 767.73 | 3.88 | OSF1.50 | 13880.00 | 7875.00 | | | | | MinPt-CtCt |
| | 1263.97 | 513.07 | 921.26 | 750.91 | 3.70 | OSF1.50 | 14280.00 | 7875.00 | | | | | MINPT-O-EOU |
| | 1291.24 | 556.33 | 919.65 | 734.91 | 3.49 | OSF1.50 | 14840.00 | 7875.00 | | | | | MINPT-O-EOU |
| | 1295.35 | 561.04 | 920.66 | 734.31 | 3.47 | OSF1.50 | 14920.00 | 7875.00 | | | | | MinPt-O-ADP |
| | 1304.37 | 570.42 | 923.43 | 733.94 | 3.44 | OSF1.50 | 15060.00 | 7875.00 | | | | | MinPt-O-ADP |
| | 1325.08 | 625.33 | 907.55 | 699.75 | 3.18 | OSF1.50 | 15660.00 | 7875.00 | | | | | MinPts |
| | 1663.04 | 501.08 | 1328.45 | 1161.96 | 4.99 | OSF1.50 | 16660.00 | 7875.00 | | | | OSF<5.00 | Exit Alert |
| | 2707.17 | 313.88 | 2497.38 | 2393.29 | 13.00 | OSF1.50 | 18015.78 | 7875.00 | | | | | TD |
| Cottonwood Creek 4-65 27-28 3CH MWD 0' to 18345' - PR (Def Survey) | | | | | | | | | | | | | |
| | 7988.06 | 249.09 | 7821.40 | 7738.98 | 48.45 | OSF1.50 | 0.00 | 0.00 | | | | | Warning Alert |
| | 7960.34 | 249.32 | 7793.52 | 7711.02 | 48.23 | OSF1.50 | 28.00 | 28.00 | | | | | Surface |
| | 2127.82 | 640.04 | 1700.41 | 1487.79 | 5.00 | OSF1.50 | 6890.00 | 6841.42 | | | | OSF<5.00 | WRP |
| | 1964.79 | 711.33 | 1489.37 | 1253.47 | 4.16 | OSF1.50 | 7630.00 | 7553.33 | | | | | Enter Alert |
| | 1965.06 | 712.09 | 1489.10 | 1252.97 | 4.15 | OSF1.50 | 7660.00 | 7577.91 | | | | | MinPt-CtCt |
| | 1965.93 | 712.63 | 1489.59 | 1253.31 | 4.15 | OSF1.50 | 7690.00 | 7601.77 | | | | | MinPts |
| | 2171.71 | 657.41 | 1731.44 | 1514.30 | 4.99 | OSF1.50 | 8480.00 | 7875.00 | | | | OSF<5.00 | MinPt-O-SF |
| | 10652.62 | 160.27 | 10545.24 | 10492.36 | 100.69 | OSF1.50 | 18015.78 | 7875.00 | | | | | Exit Alert |
| | | | | | | | | | | | | | TD |
| Cottonwood Creek 4-65 28-27 3AH Plan #0 (Def Plan) | | | | | | | | | | | | | |
| | 74.86 | 32.81 | 73.87 | 42.05 | N/A | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 74.86 | 32.81 | 73.87 | 42.05 | 11083.98 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 74.86 | 32.81 | 72.76 | 42.05 | 66.23 | MAS = 10.00 (m) | 240.00 | 240.00 | | | | | WRP |
| | 74.92 | 32.81 | 72.67 | 42.11 | 58.64 | MAS = 10.00 (m) | 270.00 | 270.00 | | | | | MinPts |
| | 336.15 | 32.81 | 323.48 | 303.35 | 28.67 | MAS = 10.00 (m) | 2000.00 | 1989.73 | | | | | MINPT-O-EOU |
| | 1278.75 | 56.19 | 1240.96 | 1222.56 | 34.72 | OSF1.50 | 7320.00 | 7267.77 | | | | | MinPt-O-SF |
| | 1183.42 | 57.72 | 1144.61 | 1125.70 | 31.26 | OSF1.50 | 7920.00 | 7756.27 | | | | | MinPt-O-SF |
| | 1183.46 | 57.81 | 1144.60 | 1125.66 | 31.22 | OSF1.50 | 7930.00 | 7761.70 | | | | | MinPt-CtCt |
| | 1199.06 | 59.31 | 1159.19 | 1139.75 | 30.81 | OSF1.50 | 8160.00 | 7852.71 | | | | | MinPts |
| | 1205.51 | 59.59 | 1165.45 | 1145.91 | 30.83 | OSF1.50 | 8210.00 | 7863.35 | | | | | MinPt-O-SF |
| | 9826.24 | 66.69 | 9781.45 | 9759.55 | 224.31 | OSF1.50 | 18015.78 | 7875.00 | | | | | TD |
| Cottonwood Creek 4-65 28-27 1AH Plan #0 (Def Plan) | | | | | | | | | | | | | |
| | 75.05 | 32.81 | 74.06 | 42.24 | N/A | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 74.99 | 32.81 | 74.00 | 42.18 | N/A | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 74.99 | 32.81 | 72.84 | 42.18 | 63.83 | MAS = 10.00 (m) | 250.00 | 250.00 | | | | | WRP |
| | 75.12 | 32.81 | 72.73 | 42.31 | 52.83 | MAS = 10.00 (m) | 290.00 | 290.00 | | | | | MinPts |
| | 113.51 | 32.81 | 106.27 | 80.70 | 17.97 | MAS = 10.00 (m) | 1060.00 | 1057.09 | | | | | MINPT-O-EOU |
| | 1093.81 | 70.23 | 1046.66 | 1023.58 | 23.67 | OSF1.50 | 8070.00 | 7825.13 | | | | | MinPt-O-SF |
| | 1093.83 | 70.33 | 1046.61 | 1023.50 | 23.64 | OSF1.50 | 8080.00 | 7828.71 | | | | | MinPt-CtCt |
| | 1093.91 | 70.43 | 1046.64 | 1023.49 | 23.61 | OSF1.50 | 8090.00 | 7832.17 | | | | | MINPT-O-EOU |
| | 1114.21 | 72.77 | 1065.37 | 1041.44 | 23.26 | OSF1.50 | 8330.00 | 7874.93 | | | | | MinPt-O-SF |
| | 1117.25 | 72.97 | 1068.28 | 1044.29 | 23.28 | OSF1.50 | 8350.00 | 7875.00 | | | | | MinPt-O-ADP |
| | 9832.43 | 80.37 | 9778.52 | 9752.05 | 185.75 | OSF1.50 | 18015.78 | 7875.00 | | | | | MinPt-O-SF |
| | | | | | | | | | | | | | TD |
| Little Rush 4-65 28 1V MWD 0' to 8693' - PR (Def Survey) | | | | | | | | | | | | | |
| | 1465.50 | 32.81 | 1463.65 | 1432.69 | 41896.24 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 1465.47 | 32.81 | 1463.56 | 1432.66 | 14582.06 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 1463.88 | 32.81 | 1459.97 | 1431.07 | 696.22 | MAS = 10.00 (m) | 460.00 | 460.00 | | | | | WRP |
| | 1463.95 | 32.81 | 1459.91 | 1431.14 | 657.53 | MAS = 10.00 (m) | 480.00 | 480.00 | | | | | MinPts |
| | 1630.06 | 32.81 | 1619.25 | 1597.25 | 176.88 | MAS = 10.00 (m) | 2100.00 | 2088.95 | | | | | MINPT-O-EOU |
| | 2242.46 | 41.22 | 2214.45 | 2201.24 | 84.86 | OSF1.50 | 7300.00 | 7248.08 | | | | | MinPt-O-SF |
| | 2264.44 | 41.57 | 2236.19 | 2222.87 | 84.92 | OSF1.50 | 7420.00 | 7364.69 | | | | | MinPt-O-SF |
| | 2860.59 | 58.81 | 2820.85 | 2801.78 | 74.96 | OSF1.50 | 9080.00 | 7875.00 | | | | | MinPt-O-SF |
| | 2889.87 | 59.40 | 2849.73 | 2830.46 | 74.96 | OSF1.50 | 9130.00 | 7875.00 | | | | | MinPt-O-SF |
| | 10832.70 | 82.29 | 10777.31 | 10750.41 | 201.35 | OSF1.50 | 18015.78 | 7875.00 | | | | | TD |
| Rush 4-65 29-30 3CH Plan #0 (Def Plan) | | | | | | | | | | | | | |
| | 1640.71 | 32.81 | 1639.69 | 1607.90 | 50208.79 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 1640.71 | 32.81 | 1639.63 | 1607.90 | 17284.99 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 1624.73 | 32.81 | 1619.78 | 1591.92 | 409.85 | MAS = 10.00 (m) | 630.00 | 629.88 | | | | | WRP |
| | 1624.78 | 32.81 | 1619.71 | 1591.98 | 397.41 | MAS = 10.00 (m) | 650.00 | 649.84 | | | | | MinPts |
| | 1991.34 | 544.89 | 1627.75 | 1446.45 | 5.49 | OSF1.50 | 18015.78 | 7875.00 | | | | | MINPT-O-EOU |
| | | | | | | | | | | | | | MinPts |
| Cottonwood Creek 4-65 28-27 4DH Plan #0 (Def Plan) | | | | | | | | | | | | | |
| | 1665.73 | 32.81 | 1664.72 | 1632.92 | 53908.90 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 1665.73 | 32.81 | 1664.65 | 1632.92 | 17883.86 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 1665.73 | 32.81 | 1663.75 | 1632.92 | 1673.15 | MAS = 10.00 (m) | 200.00 | 200.00 | | | | | WRP |
| | 1665.84 | 32.81 | 1663.60 | 1633.04 | 1317.80 | MAS = 10.00 (m) | 260.00 | 260.00 | | | | | MinPts |
| | 2074.49 | 32.81 | 2062.33 | 2041.68 | 185.50 | MAS = 10.00 (m) | 2360.00 | 2346.91 | | | | | MINPT-O-EOU |
| | 3416.89 | 57.94 | 3377.94 | 3358.95 | 89.96 | OSF1.50 | 7680.00 | 7593.90 | | | | | MinPt-O-SF |
| | 4141.32 | 100.32 | 4074.12 | 4041.00 | 62.52 | OSF1.50 | 10590.00 | 7875.00 | | | | | MinPt-O-SF |
| | 10306.89 | 128.58 | 10220.84 | 10178.30 | 121.15 | OSF1.50 | 18015.78 | 7875.00 | | | | | TD |
| Rush 4-65 29-30 4AH Plan #0 (Def Plan) | | | | | | | | | | | | | |
| | 1690.40 | 32.81 | 1689.37 | 1657.59 | 34565.29 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 1690.40 | 32.81 | 1689.30 | 1657.59 | 15208.73 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 1690.40 | 32.81 | 1686.83 | 1657.59 | 652.94 | MAS = 10.00 (m) | 450.00 | 450.00 | | | | | WRP |
| | 1690.46 | 32.81 | 1686.77 | 1657.65 | 623.19 | MAS = 10.00 (m) | 470.00 | 470.00 | | | | | MinPts |
| | 1889.10 | 32.81 | 1877.83 | 1856.30 | 183.53 | MAS = 10.00 (m) | 2110.00 | 2098.87 | | | | | MINPT-O-EOU |
| | 2841.40 | 545.43 | 2277.46 | 2095.97 | 7.27 | OSF1.50 | 18015.78 | 7875.00 | | | | | MinPt-O-SF |
| | | | | | | | | | | | | | MinPts |
| Rush 4-65 29-30 4CH Plan #0 (Def Plan) | | | | | | | | | | | | | |
| | 1740.10 | 32.81 | 1739.06 | 1707.29 | 29100.71 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | | Pass |
| | 1740.10 | 32.81 | 1739.00 | 1707.29 | 14258.82 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | | Surface |
| | 1740.10 | 32.81 | 1738.14 | 1707.29 | 1775.43 | MAS = 10.00 (m) | 190.00 | 190.00 | | | | | WRP |
| | 1740.13 | 32.81 | 1738.08 | 1707.32 | 1653.72 | MAS = 10.00 (m) | 210.00 | 210.00 | | | | | MinPts |
| | 2104.94 | 32.81 | 2092.29 | 2072.13 | 180.34 | MAS = 10.00 (m) | 2260.00 | 2247.69 | | | | | MINPT-O-EOU |
| | 3290.84 | 543.38 | 2928.26 | 2747.46 | 9.10 | OSF1.50 | 18015.78 | 7875.00 | | | | | MinPt-O-SF |
| | | | | | | | | | | | | | MinPts |
| Cottonwood Creek 4-65 27-28 3DH MWD 0' to 17955' - PR (Def Survey) | | | | | | | | | | | | | |
| | 8117.60 | 252.40 | 7948.73 | 7865.20 | 48.58 | OSF1.50 | 0.00 | 0.00 | | | | | Pass |
| | 8090.05 | 252.69 | 7920.98 | 7837.36 | 48.36 | OSF1.50 | 28.00 | 28.00 | | | | | Surface |
| | 2353.00 | 665.09 | 1908.23 | 1687.91 | 5.33 | OSF1.50 | 7540.00 | 7475.67 | | | | | WRP |
| | 2353.07 | 665.31 | 1908.15 | 1687.76 | 5.33 | OSF1.50 | 7550.00 | 7484.57 | | | | | MinPt-CtCt |
| | | | | | | | | | | | | | MINPT-O-EOU |

...Rush 4-65 29-30 2AH\Original Hole\Rush 4-65 29-30 2AH Plan #0

| Offset Trajectory | Separation | | | Allow Dev. (ft) | Sep. Fact. | Controlling Rule | Reference Trajectory | | Risk Level | | | Alert | Status |
|---|------------|----------|----------|-----------------|------------|------------------|----------------------|----------|------------|-------|-------|-------------|--------|
| | Ct-Ct (ft) | MAS (ft) | EOU (ft) | | | | MD (ft) | TVD (ft) | Alert | Minor | Major | | |
| | 2353.22 | 665.51 | 1908.16 | 1887.72 | 5.33 | OSF1.50 | 7560.00 | 7493.40 | | | | MinPt-O-ADP | |
| | 2354.14 | 665.98 | 1908.74 | 1888.16 | 5.33 | OSF1.50 | 7590.00 | 7519.50 | | | | MinPt-O-SF | |
| | 11088.82 | 170.15 | 10974.85 | 10918.67 | 98.67 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Cottonwood Creek 4-65 27-28 4AH MWD 0' to 18257' - PR (Def Survey) | | | | | | | | | | | | | |
| | 8112.55 | 272.62 | 7930.20 | 7839.93 | 44.92 | OSF1.50 | 0.00 | 0.00 | | | | Surface | Pass |
| | 8085.25 | 273.01 | 7902.64 | 7812.24 | 44.71 | OSF1.50 | 28.00 | 28.00 | | | | WRP | |
| | 2610.67 | 721.09 | 2129.15 | 1889.58 | 5.44 | OSF1.50 | 7590.00 | 7519.50 | | | | MinPt-CtCt | |
| | 2610.84 | 721.79 | 2129.83 | 1889.06 | 5.44 | OSF1.50 | 7620.00 | 7544.99 | | | | MINPT-O-EOU | |
| | 2610.99 | 721.99 | 2128.84 | 1889.01 | 5.44 | OSF1.50 | 7630.00 | 7553.33 | | | | MinPt-O-ADP | |
| | 2612.47 | 722.79 | 2129.75 | 1889.68 | 5.44 | OSF1.50 | 7680.00 | 7593.90 | | | | MinPt-O-SF | |
| | 10771.64 | 205.53 | 10634.08 | 10566.11 | 79.22 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Cottonwood Creek 4-65 27-28 4BH MWD 0' to 18288' - PR (Def Survey) | | | | | | | | | | | | | |
| | 8264.57 | 279.02 | 8077.95 | 7985.55 | 44.71 | OSF1.50 | 0.00 | 0.00 | | | | Surface | Pass |
| | 8237.48 | 279.44 | 8050.58 | 7958.03 | 44.50 | OSF1.50 | 28.00 | 28.00 | | | | WRP | |
| | 2944.10 | 719.56 | 2463.76 | 2224.54 | 6.15 | OSF1.50 | 7620.00 | 7544.99 | | | | MinPt-CtCt | |
| | 2944.24 | 720.18 | 2463.47 | 2224.06 | 6.14 | OSF1.50 | 7650.00 | 7569.80 | | | | MINPT-O-EOU | |
| | 2944.38 | 720.36 | 2463.48 | 2224.02 | 6.14 | OSF1.50 | 7660.00 | 7577.91 | | | | MinPt-O-ADP | |
| | 2945.71 | 721.10 | 2464.29 | 2224.62 | 6.14 | OSF1.50 | 7710.00 | 7617.24 | | | | MinPt-O-SF | |
| | 10859.93 | 225.62 | 10708.98 | 10634.31 | 72.71 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Cottonwood Creek 4-65 27 1H ST1 7234' to 12126' - PR (Def Survey) | | | | | | | | | | | | | |
| | 5122.61 | 32.81 | 5120.73 | 5089.80 | 87774.70 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | Surface | Pass |
| | 5122.60 | 32.81 | 5120.66 | 5089.79 | 42141.28 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | WRP | |
| | 5122.59 | 32.81 | 5120.50 | 5089.78 | 18341.79 | MAS = 10.00 (m) | 70.00 | 70.00 | | | | MinPts | |
| | 5122.52 | 32.81 | 5118.36 | 5089.71 | 2180.79 | MAS = 10.00 (m) | 460.00 | 460.00 | | | | MinPts | |
| | 5122.68 | 32.81 | 5118.19 | 5089.87 | 1910.51 | MAS = 10.00 (m) | 520.00 | 519.99 | | | | MINPT-O-EOU | |
| | 5188.20 | 32.81 | 5177.65 | 5155.39 | 579.78 | MAS = 10.00 (m) | 2300.00 | 2287.38 | | | | MinPt-O-SF | |
| | 5548.54 | 42.05 | 5519.98 | 5506.50 | 205.74 | OSF1.50 | 7630.00 | 7553.33 | | | | MinPt-O-SF | |
| | 15815.43 | 43.39 | 15785.97 | 15772.04 | 567.65 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Cottonwood Creek 4-65 27 1H Pilot 0' to 8261' - PR (Def Survey) | | | | | | | | | | | | | |
| | 5122.61 | 32.81 | 5120.73 | 5089.80 | 87774.70 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | Surface | Pass |
| | 5122.60 | 32.81 | 5120.66 | 5089.79 | 42141.28 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | WRP | |
| | 5122.59 | 32.81 | 5120.50 | 5089.78 | 18341.79 | MAS = 10.00 (m) | 70.00 | 70.00 | | | | MinPts | |
| | 5122.52 | 32.81 | 5118.36 | 5089.71 | 2180.79 | MAS = 10.00 (m) | 460.00 | 460.00 | | | | MinPts | |
| | 5122.68 | 32.81 | 5118.19 | 5089.87 | 1910.51 | MAS = 10.00 (m) | 520.00 | 519.99 | | | | MINPT-O-EOU | |
| | 5188.20 | 32.81 | 5177.65 | 5155.39 | 579.78 | MAS = 10.00 (m) | 2300.00 | 2287.38 | | | | MinPt-O-SF | |
| | 5644.37 | 43.06 | 5615.14 | 5601.32 | 204.19 | OSF1.50 | 7800.00 | 7682.35 | | | | MinPt-O-SF | |
| | 15794.93 | 46.55 | 15763.36 | 15748.38 | 527.08 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Chico 4-65 26-25 2BH MWD 0' to 17932' - PR (Def Survey) | | | | | | | | | | | | | |
| | 10545.97 | 32.81 | 10544.10 | 10513.16 | 180652.46 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | MinPts | Pass |
| | 10546.24 | 32.81 | 10544.34 | 10513.44 | 121883.09 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | WRP | |
| | 10621.86 | 32.81 | 10611.27 | 10589.06 | 1182.48 | MAS = 10.00 (m) | 2100.00 | 2088.95 | | | | MinPt-O-SF | |
| | 10627.17 | 32.81 | 10616.61 | 10594.36 | 1186.10 | MAS = 10.00 (m) | 2220.00 | 2208.01 | | | | MinPt-O-SF | |
| | 10360.56 | 39.73 | 10333.37 | 10320.83 | 412.84 | OSF1.50 | 6710.00 | 6662.83 | | | | MinPt-CtCt | |
| | 10360.66 | 40.03 | 10333.28 | 10320.64 | 409.70 | OSF1.50 | 6760.00 | 6712.44 | | | | MINPT-O-EOU | |
| | 10360.77 | 40.14 | 10333.30 | 10320.62 | 408.46 | OSF1.50 | 6780.00 | 6732.28 | | | | MinPt-O-ADP | |
| | 10742.99 | 45.15 | 10712.36 | 10697.84 | 370.00 | OSF1.50 | 7960.00 | 7777.31 | | | | MinPt-O-SF | |
| | 20773.86 | 45.66 | 20742.89 | 20728.21 | 707.32 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Chico 4-65 26-25 2DH MWD 0' to 17975' - PR (Def Survey) | | | | | | | | | | | | | |
| | 10544.15 | 32.81 | 10542.18 | 10511.34 | 67476.63 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | MinPt-O-SF | Pass |
| | 10544.09 | 32.81 | 10542.15 | 10511.28 | 78794.71 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | WRP | |
| | 10543.99 | 32.81 | 10541.68 | 10511.18 | 20949.75 | MAS = 10.00 (m) | 170.00 | 170.00 | | | | MinPts | |
| | 10544.03 | 32.81 | 10540.40 | 10511.23 | 5800.21 | MAS = 10.00 (m) | 450.00 | 450.00 | | | | MinPts | |
| | 10544.09 | 32.81 | 10540.34 | 10511.28 | 5441.98 | MAS = 10.00 (m) | 480.00 | 480.00 | | | | MINPT-O-EOU | |
| | 10393.22 | 39.97 | 10365.91 | 10353.26 | 410.53 | OSF1.50 | 6680.00 | 6633.06 | | | | MinPt-CtCt | |
| | 10393.32 | 40.20 | 10365.85 | 10353.12 | 408.08 | OSF1.50 | 6720.00 | 6672.75 | | | | MINPT-O-EOU | |
| | 10393.42 | 40.32 | 10365.87 | 10353.10 | 406.86 | OSF1.50 | 6740.00 | 6692.59 | | | | MinPt-O-ADP | |
| | 10761.75 | 45.50 | 10730.89 | 10716.25 | 367.71 | OSF1.50 | 7940.00 | 7767.02 | | | | MinPt-O-SF | |
| | 20796.36 | 46.14 | 20765.07 | 20750.23 | 700.39 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Chico 4-65 26-25 3AH MWD 0' to 17900' - PR (Def Survey) | | | | | | | | | | | | | |
| | 10543.92 | 32.81 | 10541.99 | 10511.11 | 91956.61 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | MinPts | Pass |
| | 10544.10 | 32.81 | 10542.10 | 10511.29 | 57795.16 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | WRP | |
| | 10625.23 | 32.81 | 10614.50 | 10592.42 | 1164.97 | MAS = 10.00 (m) | 2150.00 | 2138.55 | | | | MinPt-O-SF | |
| | 10633.16 | 32.81 | 10622.40 | 10600.35 | 1161.80 | MAS = 10.00 (m) | 2320.00 | 2307.22 | | | | MinPt-O-SF | |
| | 10443.55 | 41.80 | 10415.05 | 10401.75 | 392.59 | OSF1.50 | 8600.00 | 8553.69 | | | | MinPt-CtCt | |
| | 10443.63 | 42.02 | 10414.98 | 10401.61 | 390.49 | OSF1.50 | 8640.00 | 8593.38 | | | | MINPT-O-EOU | |
| | 10443.73 | 42.13 | 10415.01 | 10401.60 | 389.45 | OSF1.50 | 8660.00 | 8613.22 | | | | MinPt-O-ADP | |
| | 10785.45 | 47.39 | 10753.32 | 10738.06 | 353.28 | OSF1.50 | 7900.00 | 7745.05 | | | | MinPt-O-SF | |
| | 20844.98 | 48.51 | 20812.11 | 20796.47 | 666.50 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |
| Chico 4-65 26-25 2CH MWD 0' to 17734' - PR (Def Survey) | | | | | | | | | | | | | |
| | 10544.63 | 32.81 | 10542.54 | 10511.84 | 35568.66 | MAS = 10.00 (m) | 0.00 | 0.00 | | | | MinPts | Pass |
| | 10544.69 | 32.81 | 10542.47 | 10511.86 | 25991.52 | MAS = 10.00 (m) | 28.00 | 28.00 | | | | WRP | |
| | 10545.13 | 32.81 | 10542.15 | 10512.32 | 9026.53 | MAS = 10.00 (m) | 230.00 | 230.00 | | | | MINPT-O-EOU | |
| | 10545.67 | 32.81 | 10541.95 | 10512.86 | 5629.37 | MAS = 10.00 (m) | 470.00 | 470.00 | | | | MINPT-O-SF | |
| | 10817.38 | 32.81 | 10806.74 | 10584.57 | 1174.59 | MAS = 10.00 (m) | 2220.00 | 2208.01 | | | | MinPt-O-SF | |
| | 10480.05 | 36.97 | 10454.78 | 10443.08 | 447.88 | OSF1.50 | 6580.00 | 6533.85 | | | | MinPt-CtCt | |
| | 10480.13 | 37.21 | 10454.70 | 10442.92 | 444.80 | OSF1.50 | 6620.00 | 6573.53 | | | | MINPT-O-EOU | |
| | 10480.28 | 37.40 | 10454.73 | 10442.89 | 442.52 | OSF1.50 | 6650.00 | 6603.30 | | | | MinPt-O-ADP | |
| | 10890.48 | 43.76 | 10860.78 | 10846.72 | 387.46 | OSF1.50 | 7980.00 | 7787.11 | | | | MinPt-O-SF | |
| | 20897.37 | 43.90 | 20867.57 | 20853.47 | 740.99 | OSF1.50 | 18015.78 | 7875.00 | | | | TD | |