



BAX PROJECT NAME : KEYSTONE RIDGE
 BAX PROJECT NO. : 16-16857
 DESIGN DATE : 07/19/2017
 FILENAME: 16857

| UPP STR | LOW STR | L | DIA | UPP FL LN | LOW FL LN | PS | UPP ST EL | DEPTH HY GR | UPP HY EL | LOW HY EL | HYDR GRADE | HEAD | VEL | VEL HEAD | JUNC LOSS | TURN LOSS | CURVE LOSS | STR GRADE | SZL CAP | DR AREA | PI | Q | TQ | PEPE CAP | REMARKS | |
|---------|---------|-----|-----|-----------|-----------|-------|-----------|-------------|-----------|-----------|------------|------|------|----------|-----------|-----------|------------|-----------|---------|---------|------|------|-------|----------|---------|----|
| C159 | MH49 | 149 | 12 | 593.88 | 590.14 | 2.50 | 598.88 | 4.66 | 594.22* | 591.14 | .00160 | 0.24 | 1.82 | 0.05 | 0.05 | 0.00 | 0.00 | 2% | 1.93 | 0.54 | 2.64 | 1.43 | 1.43 | 5.64 | 1 | |
| A158 | C157 | 108 | 12 | 585.90 | 584.82 | 1.00 | 590.90 | 4.63 | 586.28* | 585.82 | .00100 | 0.10 | 1.41 | 0.03 | 0.03 | 0.00 | 0.00 | 4% | 11.00 | 0.42 | 2.64 | 1.11 | 1.11 | 3.56 | 2 | |
| C157 | C156 | 35 | 12 | 584.62 | 584.27 | 1.00 | 591.32 | 5.82 | 585.50 | 585.27 | .00360 | 0.13 | 2.72 | 0.12 | 0.10 | 0.00 | 0.00 | 2% | 1.93 | 0.39 | 2.64 | 1.03 | 2.14 | 3.56 | 3 | |
| C156 | MH48 | 23 | 12 | 584.07 | 583.85 | 0.98 | 591.32 | 6.20 | 585.12 | 584.85 | .00650 | 0.15 | 3.67 | 0.21 | 0.12 | 0.00 | 0.00 | 2% | 1.93 | 0.28 | 2.64 | 0.74 | 2.88 | 3.52 | 4 | |
| A155 | C154 | 108 | 12 | 579.91 | 578.83 | 1.00 | 584.90 | 4.55 | 580.35* | 579.83 | .00170 | 0.18 | 1.85 | 0.05 | 0.05 | 0.00 | 0.00 | 4% | 11.00 | 0.55 | 2.64 | 1.45 | 1.45 | 3.56 | 5 | |
| C154 | C153 | 35 | 12 | 578.63 | 578.28 | 1.00 | 585.32 | 5.62 | 579.70 | 579.34 | .00580 | 0.20 | 3.46 | 0.19 | 0.16 | 0.00 | 0.00 | 2% | 1.93 | 0.48 | 2.64 | 1.27 | 2.72 | 3.56 | 6 | |
| C153 | MH47 | 26 | 12 | 578.08 | 577.81 | 1.03 | 585.32 | 5.98 | 579.34 | 578.81 | .00960 | 0.25 | 4.44 | 0.31 | 0.21 | 0.07 | 0.00 | 2% | 1.93 | 0.29 | 2.64 | 0.77 | 3.49 | 3.61 | 7 | |
| A152 | C151 | 111 | 12 | 590.66 | 589.55 | 1.00 | 595.70 | 4.70 | 591.00* | 590.55 | .00060 | 0.07 | 1.15 | 0.02 | 0.02 | 0.00 | 0.00 | 4% | 11.00 | 0.34 | 2.64 | 0.90 | 0.90 | 3.57 | 8 | |
| C151 | C150 | 36 | 12 | 589.35 | 588.99 | 0.99 | 596.12 | 5.76 | 590.36 | 589.99 | .00560 | 0.20 | 3.40 | 0.18 | 0.17 | 0.00 | 0.00 | 2% | 1.93 | 0.67 | 2.64 | 1.77 | 2.67 | 3.55 | 9 | |
| C150 | MH49 | 23 | 12 | 588.79 | 588.34 | 2.00 | 595.93 | 6.22 | 589.71 | 589.34 | .00860 | 0.19 | 4.20 | 0.27 | 0.15 | 0.03 | 0.00 | 2% | 1.93 | 0.24 | 2.64 | 0.63 | 3.30 | 5.04 | 10 | |
| MH49 | MH48 | 231 | 15 | 588.14 | 582.38 | 2.50 | 596.70 | 7.95 | 588.75* | 583.66 | .00540 | 1.24 | 3.85 | 0.23 | 0.16 | 0.19 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 4.73 | 10.21 | 11 | |
| MH48 | MH47 | 313 | 15 | 582.18 | 577.48 | 1.50 | 588.01 | 4.25 | 583.66 | 578.73 | .01390 | 4.35 | 6.20 | 0.60 | 0.43 | 0.15 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 7.61 | 7.31 | 12 | |
| MH47 | MH46 | 93 | 15 | 577.28 | 570.34 | 7.50 | 585.70 | 7.71 | 577.99* | 571.59 | .02950 | 2.73 | 9.05 | 1.27 | 1.08 | 0.53 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | 17.69 | 13 | |
| MH46 | MH45 | 61 | 15 | 565.09 | 553.00 | 19.84 | 578.30 | 12.68 | 565.62* | 554.25 | .02950 | 1.80 | 9.05 | 1.27 | 1.08 | 0.00 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | 28.77 | 14 | |
| MH45 | MH44 | 61 | 15 | 549.00 | 537.89 | 18.29 | 558.70 | 9.15 | 549.55* | 539.82 | .02950 | 1.79 | 9.05 | 1.27 | 1.08 | 0.00 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | 27.63 | 15 | |
| MH44 | FE3 | 44 | 15 | 537.69 | 536.75 | 2.15 | 547.01 | 7.19 | 539.82 | 538.11 | .02950 | 1.29 | 9.05 | 1.27 | 0.21 | 0.21 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | 9.48 | 16 | |
| D142 | MH41 | 57 | 15 | 565.00 | 564.43 | 1.01 | 570.03 | 4.00 | 566.03 | 565.68 | .00350 | 0.20 | 3.12 | 0.15 | 0.15 | 0.00 | 0.00 | LOW | 6.80 | 1.45 | 2.64 | 3.83 | 3.83 | 6.49 | 17 | |
| MH41 | MH40 | 62 | 15 | 562.94 | 560.55 | 19.31 | 571.00 | 7.76 | 563.24* | 551.80 | .00350 | 0.22 | 3.12 | 0.15 | 0.08 | 0.08 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 28.82 | 18 | |
| MH40 | FE39 | 59 | 15 | 547.00 | 536.75 | 17.38 | 555.60 | 8.27 | 547.33* | 538.11 | .00350 | 0.21 | 3.12 | 0.15 | 0.00 | 0.00 | 0.00 | MH | 0.00 | 0.00 | 0.00 | 0.00 | 3.83 | 26.93 | 19 | |
| 0638 | FE37 | 116 | 24 | 530.00 | 512.00 | 15.51 | 538.83 | 8.11 | 530.72* | 514.25 | .01190 | 1.39 | 7.87 | 0.96 | 0.96 | 0.00 | 0.00 | OS | 0.00 | 3.71 | 2.64 | 9.79 | 24.72 | 89.08 | 20 | |
| A136 | MH35 | 37 | 15 | 484.73 | 483.99 | 2.00 | 489.00 | 2.67 | 486.33 | 485.34 | .01240 | 0.46 | 5.87 | 0.53 | 0.53 | 0.00 | 0.00 | 4% | 11.00 | 3.50 | 2.71 | 7.20 | 7.20 | 9.13 | 21 | |
| MH35 | C134 | 47 | 18 | 483.79 | 483.03 | 0.99 | 493.00 | 7.66 | 485.34 | 483.83 | .00470 | 0.22 | 4.07 | 0.26 | 0.26 | 0.00 | 0.00 | 4% | 11.00 | 0.00 | 0.00 | 0.00 | 7.20 | 10.45 | 22 | |
| C134 | FE33 | 112 | 18 | 483.13 | 482.01 | 1.00 | 492.48 | 8.23 | 484.25 | 483.51 | .00490 | 0.55 | 4.15 | 0.27 | 0.10 | 0.09 | 0.00 | 4% | 1.21 | 0.04 | 3.54 | 0.14 | 7.34 | 10.51 | 23 | |
| C132 | C117 | 35 | 12 | 565.91 | 565.56 | 1.00 | 570.91 | 4.28 | 566.63 | 566.56 | .00100 | 0.04 | 1.45 | 0.03 | 0.03 | 0.00 | 0.00 | 2% | 1.93 | 0.42 | 2.64 | 1.14 | 1.14 | 3.56 | 24 | |
| C131 | C116 | 35 | 12 | 558.89 | 558.54 | 1.00 | 563.89 | 4.23 | 559.66 | 559.54 | .00180 | 0.06 | 1.91 | 0.06 | 0.06 | 0.00 | 0.00 | 2% | 1.93 | 0.54 | 2.64 | 1.50 | 1.50 | 3.56 | 25 | |
| A130 | C129 | 123 | 12 | 554.00 | 552.77 | 1.00 | 558.90 | 4.56 | 554.34* | 553.77 | .00060 | 0.08 | 1.15 | 0.02 | 0.02 | 0.00 | 0.00 | 4% | 11.00 | 0.34 | 2.64 | 0.90 | 0.90 | 3.57 | 26 | |
| C129 | C114 | 36 | 12 | 552.57 | 552.21 | 1.00 | 559.88 | 6.35 | 553.33 | 553.21 | .00200 | 0.07 | 2.02 | 0.06 | 0.05 | 0.00 | 0.00 | 3.7% | 1.32 | 0.26 | 2.64 | 0.69 | 1.59 | 3.56 | 27 | |
| C128 | C113 | 36 | 12 | 549.46 | 548.74 | 2.00 | 554.50 | 4.76 | 549.74 | 549.74 | .00100 | 0.00 | 0.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.7% | 0.50 | 0.14 | 2.64 | 0.37 | 0.37 | 5.03 | 28 |
| A127 | C126 | 25 | 12 | 538.04 | 537.79 | 1.00 | 543.90 | 4.99 | 538.91 | 538.79 | .00200 | 0.05 | 2.05 | 0.07 | 0.07 | 0.00 | 0.00 | 4% | 11.00 | 0.61 | 2.64 | 1.61 | 1.61 | 3.56 | 29 | |
| C126 | C112 | 35 | 12 | 537.59 | 537.24 | 1.00 | 542.83 | 4.41 | 538.42 | 538.24 | .00350 | 0.12 | 2.69 | 0.11 | 0.06 | 0.00 | 0.00 | 10% | 0.50 | 0.19 | 2.64 | 0.50 | 2.11 | 3.56 | 30 | |
| C125 | C110 | 36 | 12 | 523.86 | 523.50 | 1.00 | 528.86 | 4.30 | 524.56 | 524.50 | .00100 | 0.03 | 1.40 | 0.03 | 0.03 | 0.00 | 0.00 | 10% | 0.50 | 0.56 | 2.62 | 1.10 | 1.10 | 3.56 | 31 | |
| A124 | A19 | 94 | 12 | 535.00 | 511.21 | 25.27 | 541.90 | 6.76 | 535.14* | 512.21 | .00060 | 0.06 | 1.11 | 0.02 | 0.02 | 0.00 | 0.00 | 4% | 11.00 | 0.33 | 2.64 | 0.87 | 0.87 | 17.91 | 32 | |
| C123 | C122 | 35 | 12 | 511.94 | 511.59 | 1.00 | 517.02 | 4.41 | 512.61 | 512.59 | .00030 | 0.01 | 0.76 | 0.01 | 0.01 | 0.00 | 0.00 | 10% | 0.50 | 0.25 | 2.71 | 0.60 | 0.60 | 3.56 | 33 | |
| C122 | A19 | 13 | 12 | 511.39 | 511.21 | 1.41 | 517.26 | 5.03 | 512.23 | 512.21 | .00050 | 0.01 | 1.03 | 0.02 | 0.01 | 0.00 | 0.00 | 10% | 0.50 | 0.06 | 3.54 | 0.21 | 0.81 | 4.23 | 34 | |
| C121 | C18 | 35 | 12 | 503.00 | 502.65 | 1.00 | 508.00 | 4.35 | 503.65 | 503.65 | .00000 | 0.00 | 0.29 | 0.00 | 0.00 | 0.00 | 0.00 | 10% | 0.50 | 0.07 | 2.71 | 0.23 | 0.23 | 3.56 | 35 | |
| A160 | C17 | 13 | 12 | 496.80 | 495.28 | 11.99 | 500.90 | 3.87 | 497.03 | 496.97 | .00130 | 0.02 | 1.62 | 0.04 | 0.04 | 0.00 | 0.00 | 4% | 11.00 | 0.48 | 2.64 | 1.27 | 1.27 | 12.34 | 36 | |
| C120 | C16 | 35 | 12 | 490.18 | 489.33 | 2.43 | 495.10 | 2.75 | 492.35 | 492.33 | .00020 | 0.01 | 0.57 | 0.01 | 0.01 | 0.00 | 0.00 | 6% | 0.50 | 0.17 | 2.71 | 0.45 | 0.45 | 5.55 | 37 | |
| C119 | C18 | 35 | 12 | 571.19 | 570.84 | 1.00 | 576.19 | 4.16 | 572.03 | 571.84 | .00290 | 0.10 | 2.46 | 0.09 | 0.09 | 0.00 | 0.00 | 2% | 1.93 | 0.73 | 2.64 | 1.93 | 1.93 | 3.56 | 38 | |
| C118 | C17 | 262 | 12 | 570.64 | 565.56 | 1.94 | 576.19 | 4.89 | 571.30* | 566.56 | .00170 | 3.07 | 4.91 | 0.38 | 0.38 | 0.09 | 0.09 | 2% | 1.93 | 0.73 | 2.64 | 1.93 | 3.96 | 39 | | |
| C117 | C116 | 349 | 15 | 565.36 | 558.54 | 1.95 | 570.91 | 4.81 | 566.10* | 559.79 | .00890 | 3.12 | 4.98 | 0.38 | 0.38 | 0.14 | 0.03 | 0.00 | 2% | 1.93 | 0.42 | 2.64 | 1.11 | 6.11 | 12.03 | 40 |
| C116 | C115 | 117 | 18 | 558.34 | 556.59 | 1.50 | 563.89 | 4.64 | 559.26* | 558.09 | .00750 | 0.87 | 5.14 | 0.41 | 0.17 | 0.07 | 0.00 | 2% | 1.93 | 0.56 | 2.64 | 1.48 | 9.09 | 9.03 | 41 | |
| C115 | C114 | 87 | 18 | 556.39 | 552.21 | 4.81 | 561.62 | 4.55 | 557.07* | 553.71 | .00840 | 0.73 | 5.44 | 0.46 | 0.17 | 0.10 | 0.00 | 2% | 1.93 | 0.20 | 2.64 | 0.53 | 9.62 | 23.04 | 42 | |
| C114 | C113 | 106 | 18 | 552.01 | 547.77 | 4.00 | 559.57 | 6.77 | 552.80* | 549.27 | .01220 | 1.30 | 6.57 | 0.67 | 0.38 | 0.15 | 0.00 | 3.7% | 1.32 | 0.15 | | | | | | |