

BORING 1

BORING 2

| FIL  | LE NAME = | USER NAME = \$USER\$   | DESIGNED - RJP | REVISED - |                              | BORING LOGS             |
|------|-----------|------------------------|----------------|-----------|------------------------------|-------------------------|
| \$FI | ILEL\$    |                        | CHECKED - ADL  | REVISED - | STATE OF ILLINOIS            |                         |
|      |           | PLOT SCALE = \$SCALE\$ | DRAWN - RJP    | REVISED - | DEPARTMENT OF TRANSPORTATION | S.N. 034–2523           |
|      |           | PLOT DATE = \$DATE\$   | CHECKED - ADL  | REVISED - |                              | SHEET NO. 6 OF 6 SHEETS |

| 3.3   LOCATION   NW 1/4. SEC. 19. TWP. 5N. RNG. 8W. 4 PM     -   DRILLING METHOD   HSA   HAMMER TYPE   140# Auto     42523   D   E   L   O   Surface Water Elev.   517.8. ft     32444   P   C   O   S   Stream Bed Elev.   516.1. ft     32444   P   C   S   Stream Bed Elev.   516.1. ft     32444   P   Goundwater Elev.   516.1. ft     3244   F   Goundwater Elev.   516.1. ft     323   H   S   Qu   T     3244   F   F   Y   Y     3244   F   Y   Y   Stream Bed Elev.   516.1. ft     323   F   F   Y   Y   Y     3244   F   Y   Y   Y   Y     3244   F   Y   Y   Y   Y     3244   F   Y   Y   Y   Y     33   0.9   23   Y   Y   Y     4   1   Y   Y   Y </th <th>B-3   LOCATION _ NW 1/4, SEC. 19, TWP. 5N, RNG. 8W.4 PM     k   DRILLING METHOD   HSA   HAMMER TYPE140# Auto     42523   B   C   N   Surface Water Elev.   517.8, ft     2524   F   N   Surface Water Elev.   516.1, ft     3250   H   S   Qu   T     2527   ft   (ft) / 6°   (so)   T     01RT   520.7   ft   (ft) / 6°   (so)   T     01RT   520.7   ft   (ft) / 6°   (so)   T   T     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -   -     9   -</th> <th>brilling method     HSA     HAMMER TYPE     140# Auto       34-2523     D     B     U     C     0     Stram Bed Elev.     516.1     ft       33+50     F     O     S     T     Groundwater Elev.     516.1     ft       33+50     H     S     Qu     T     Groundwater Elev.     516.1     ft       303+50     H     S     Qu     T     Groundwater Elev.     516.1     ft       303+50     H     S     Qu     T     Groundwater Elev.     516.1     ft       303+50     F     Groundwater Elev.     Stram Bed Elev.</th> | B-3   LOCATION _ NW 1/4, SEC. 19, TWP. 5N, RNG. 8W.4 PM     k   DRILLING METHOD   HSA   HAMMER TYPE140# Auto     42523   B   C   N   Surface Water Elev.   517.8, ft     2524   F   N   Surface Water Elev.   516.1, ft     3250   H   S   Qu   T     2527   ft   (ft) / 6°   (so)   T     01RT   520.7   ft   (ft) / 6°   (so)   T     01RT   520.7   ft   (ft) / 6°   (so)   T   T     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -     9   -   -   -   -   -   -   -   -     9   -  | brilling method     HSA     HAMMER TYPE     140# Auto       34-2523     D     B     U     C     0     Stram Bed Elev.     516.1     ft       33+50     F     O     S     T     Groundwater Elev.     516.1     ft       33+50     H     S     Qu     T     Groundwater Elev.     516.1     ft       303+50     H     S     Qu     T     Groundwater Elev.     516.1     ft       303+50     H     S     Qu     T     Groundwater Elev.     516.1     ft       303+50     F     Groundwater Elev.     Stram Bed Elev. |
|---|---|--|
| DRILLING METHOD   HSA   HAMMER TYPE   140# Auto     4:2523   P   B   U   N   Surface Water Elev.   517.8   ft     :SA   P   V   S   I   Groundwater Elev.   510.1   ft     :SA   H   S   Qu   T   Groundwater Elev.   510.1   ft     :SA   H   S   Qu   T   Groundwater Elev.   510.1   ft     :SA   H   S   Qu   T   Groundwater Elev.   510.1   ft     :S29.7   ft   (ft)   /6"   (ts)   Yeinst Encounter   No Encounter   T     :S28.70   -   -   -   -   -   -   -     :S28.70   -   -   -   -   -   -   -   -     :S28.70   -   -   -   -   -   -   -   -     :S28.70   -   -   -   -   -   -   -   -     :S400   -   -   -   -   -  | DRILING METHOD   HSA   HAMMER TYPE   140# Auto     42523   D   D   B   U   N   Surface Water Elev.   517.8. ft     32530   H   S   Q   S   T   Stram Bed Elev.   516.1. ft     33550   H   S   Qu   T   Stram Bed Elev.   516.1. ft     Groundwater Elev.   Stram Bed Elev.   Stram Bed Elev.   Stram Bed Elev.   Stram Bed Elev.     GRAVEL  | Brilling METHOD   HSA   HAMMER TYPE   140# Auto     34-2523   D   B   U   M   Surface Water Elev.   517.8. ft     323-850   H   S   S   S   Strame Bde Elev.   516.1. ft     323-850   H   S   Qu   T   Strame Bde Elev.   516.1. ft     323-850   H   S   Qu   T   Strame Bde Elev.   516.1. ft     529.7   ft   (ft) / /6" (ts9) (%)   Yater   Hrs.   Plugged ft     GRAVEL   -   -   -   -   Plugged ft     -   -   -   -   -   -     -   -   -   -   -   -     -   -   -   -   -   -     -   -   -   -   -   -     -   -   -   -   -   -     -   -   -   -   -   -     -   -   -   -   -   -     -   -   -   -   -   |
| 42523<br>22:444   P   D   B   U   M   Surface Water Elev.   517.8   ft     SSA   T   W   S   Stram Bed Elev.   516.1   ft     S3:60   H   S   Qu   T   Y   Y   Stram Bed Elev.   516.1   ft     S28.7   H   S   Qu   T   Y   Y   Y   Y     SRAVEL   -   -   -   -   -   Y   Y   Y   Y   Y   Y     SRAVEL   -  | 4_2523<br>32*244   D   B   U   M   Surface Water Elev.   517.8   ft     3253   T   W   Qu   T   Stram Bed Elev.   510.1   ft     3253   T   W   Qu   T   Groundwater Elev.   510.1   ft     3253   T   W   Qu   T   Groundwater Elev.   510.1   ft     33550   H   N   Rur   Stram Bed Elev.   510.1   ft     GRAVEL  | 24_2523<br>032+44   D   B   U   M   Surface Water Elev.   517.8   ft     3.5A   T   W   Surface Water Elev.   510.1   ft     3.5A   T   Surface Water Elev.   Surface Water Elev.   Surface Water Elev.     Standard   First Encounter   NE   Surface Water Elev.   Surface Water Elev.   Surface Water Elev.     Standard   First Encounter   NE   Surface Water Elev.   Surface Water Elev.   Surface Water Elev.     Standard   First Encounter   NE   Surface Water Elev.   Surface Water Elev.   Surface Water Elev.   Surface Water Elev.     Standard   First Encounter   Hrs.   Plugged ft   Surface Water Elev.   Surface Water Elev.   Surface Water Elev.     Standard   T   T   Hrs.   Plugged ft   Surface Mater Elev.     Standard   T   T   Hrs.   Surface Mater Elev.   Surf   |
| SA     F     L     C     O     Stream Bed Elev.     516.1     ft       SA     T     W     S     S     Groundwater Elev.:     Steam Bed Elev.     Steam Telev.:  | Bask     E     L     C     O     Stream Bed Elev.     516.1     ft       33:50     H     S     Groundwater Elev.:     Stream Bed Elev.     516.1     ft       33:50     H     S     Qu     T     W     Stream Bed Elev.     516.1     ft       33:50     H     S     Qu     T     Verset Encounter     NEncounter     ft       Groundwater Elev.:     Verset Encounter     NEncounter     NEncounter     ft     Yeist Encounter     ft       GRAVEL     -     -     -     -     -     -     -       -     1     -     -     -     -     -     -       -     1     -     -     -     -     -     -       -     1     -     -     -     -     -     -     -       -     1     -     -     -     -     -     -     -     -     -     -     -     -     -     -   | 322442 E L C O   333450 T W S   333450 H Soundwater Elev.: Stream Bed Elev.   333450 Yes T   32347 H H   Soundwater Elev.: Vestion   Stream Bed Elev. Stream Bed Elev.   Stream Bed Elev. Stream Bed Elev  |
| SA     P     O     S     I       33+50     H     S     Qu     T     Groundwater Elev.:     Z First Encounter     No     Encounter     It       520.7     ft     ft     fts"     (ts)     fts"     T     Z First Encounter     No     Encounter     It       520.7     ft     fts"     (ts)     fts"     T     Z First Encounter     No     Encounter     It       SRAVEL     -     1     -     -     Plugged <tt< td="">     T       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     -     -       -     -     -     -     -     -     <t< th=""><th>SA     P     V     S     I       33:50     H     S     Qu     T     Y<!--</th--><th>3.5A P V S I   333450 P W S S   333450 P K S S   333450 P K S S   333450 P K S S   333450 F K V S   528.7 R K K S   CGRAVEL 1 S P K   1 9 X K F   528.70 1 K P   4 1 1 S   528.70 1 K F   4 1 S S   521.70 3 1.1 15   521.70 30/1* S S   7 30/1* S S   9 30/1* S S   10 30/1* S S   11 S S S   12.70 S S S   70 S S S   11 S S S   12.70 S S S   13.70 S S   14.10 &lt;</th></th></t<></tt<>   | SA     P     V     S     I       33:50     H     S     Qu     T     Y </th <th>3.5A P V S I   333450 P W S S   333450 P K S S   333450 P K S S   333450 P K S S   333450 F K V S   528.7 R K K S   CGRAVEL 1 S P K   1 9 X K F   528.70 1 K P   4 1 1 S   528.70 1 K F   4 1 S S   521.70 3 1.1 15   521.70 30/1* S S   7 30/1* S S   9 30/1* S S   10 30/1* S S   11 S S S   12.70 S S S   70 S S S   11 S S S   12.70 S S S   13.70 S S   14.10 &lt;</th> | 3.5A P V S I   333450 P W S S   333450 P K S S   333450 P K S S   333450 P K S S   333450 F K V S   528.7 R K K S   CGRAVEL 1 S P K   1 9 X K F   528.70 1 K P   4 1 1 S   528.70 1 K F   4 1 S S   521.70 3 1.1 15   521.70 30/1* S S   7 30/1* S S   9 30/1* S S   10 30/1* S S   11 S S S   12.70 S S S   70 S S S   11 S S S   12.70 S S S   13.70 S S   14.10 <   |
| D'RT   529.7   ft   (ft)   /6"   (fs)   (%)     SRAVEL   -   -   -   -   -   D'y   ft     SRAVEL   -  | OPRT   520.7   ft   (ft)   /f*   (ts)   (ft)   /f*   (ts)   (ft)   /f*     S20.7   ft   (ft)   /f*   (ts)   (ft)   /f*   /f*     GRAVEL   -<  | Sold Time  |
| JANEL   | GRAVEL   -   1   -     -   -   1   -     9   -   7   -     M w/<br>el   -   1   -     -   -   1   -     -   3   0.9   23     -   -   1   -     -   -   1   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -     -   -   -   -   -  | GRAVEL   1   1     9   7   1     9   7   1     9   7   1     1   3   0.9   23     526.70   1   1     ystalline   3   0.9   23     -1   -1   -1   -1     -3   1.1   15     ystalline   -37   -1     -10   -17   B     -519.70   -10   30/1*     -15   -16   -16     -16   -16   -16     -30   -16   -16     -31   -31   -16     -32   -32   -32     ressive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)     Sampler Advanced By Weight of Hammer, W.O.P. Advanced by Weight of Pipe, B.S. Before Seating     e sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-39)  |
| -       | Image: Advanced by Weight of Hammer, W.O.P Advanced by Weight of Pipe, B.S Before Seating sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |  |
| 9     7       1     7       1     1       3     0.9   | All with the set we blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-39)   | resive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>e sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Kev. 8-99)  |
| M w/<br>el<br>1<br>-<br>3<br>0.9<br>23<br>-<br>5<br>2<br>B<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   | M w/   1  | MW w/<br>vel   1   1     3   0.9   23     -   2   B     -   1   1     -   3   1.1     1   1   1     -   3   1.1     -   1   1     -   1   1     -   3   1.1     -   1   1     -   1   1     -   3   1.1     -   1   1     -   1   1     -   3   1.1     -   1   1     -   3   1.1     -   1   1     -   3   1.1     -   1   1     -   3   1.1     -   3   1.1     -   30/1*   -     -   -   -     -   -   -     -   -   -     -   -   -     -   -  |
| M w/<br>el - 1  | M w/<br>el  | M w/<br>rel 1 1 1 15<br>3 0.9 23<br>5 2 B<br>1 1 1 15<br>521.70<br>519.70 - 10 30/1*<br>519.70 - 10 30/1*<br>  |
| 3     0.9     23       5     2     B  | stalline  | ressive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>Sampler Advanced By Weight of Hammer, W.O.P Advanced by Weight of Pipe, B.S Before Seating<br>e sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
|   | essive Strength (UCS) Failure Mode is indicated by (8-Bulge, 5-Shear, P-Penetrometer, E-Estimated)<br>rampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>rs un of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   | essive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>essure Strength (UCS) Failure Mode Is indicated by (A-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>e sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  |
| 3 1.1 15<br>17 B<br>521.70<br>519.70  | stalline<br>521.70<br>37<br>70<br>519.70<br>519.70<br>-0<br>30/1"<br>   | essive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>as un of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
| 3 1.1 15<br>17 B<br>521.70<br>519.70  | stalline<br>521.70<br>37<br>70<br>519.70<br>519.70<br>-0<br>30/1"<br>   | essive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>a sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  |
| 17     B       stalline     37       70     30/1*       519.70     -10       -10     30/1*       -15     -10       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -15     -15       -10     -10       -11     -10       -12     -10       -13     -10       -14     -10       -15     -10       -15     -10       -10     -10       -10     -10       -15     -10       -10     -10       -10     -10       -10  | stalline 37<br>70<br>519.70 -10 30/1*<br>   | essive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>as un of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
| stalline  | stalline  | stalline 37<br>70<br>519.70 -10 30/1*<br>  |
|   | 37   70     519.70   -10     -10   -10     -15   -10     -15   -10     -15   -10     -15   -10     -16   -10     -17   -10     -18   -10     -19   -10     -10  | 37   70     70   30/1*     519.70   -10     -10   -10     -15   -10     -15   -10     -15   -10     -15   -10     -15   -10     -15   -10     -15   -10     -15   -10     -15   -10     -15   -10     -16   -10     -17   -10     -18   -10     -19   -10     -10   -10     -11   -10     -12   -10     -13   -10     -14   -10     -15   -10     -16   -10     -17   -10     -18   -10     -19   -10     -10   -10     -10   -10     -10   -10     -10   -10     -10   -10     -10   -10     -10   -10     -10 <td< td=""></td<>  |
| 519.70 -io 30/1"  | 519.70 - 10 30/1"   | 519.70 - 10 30/1*  |
|   | ssive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   | ssive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  |
|   | -20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20  |  |
|   | -20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20  |  |
|   | -20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20  | -20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20   |
|   | 20<br>20<br>ssive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   | 20<br>20<br>ssive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  |
|   | -20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20<br>-20  |  |
|   | 20<br>sive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | 20<br>sive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>npler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
|   | -20<br>-20<br>sive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | 20<br>sive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
|   | -20<br>asive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |  |
| 20<br>sive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  | 20<br>sive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | 20<br>sive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
| 20<br>sive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  | 20<br>sive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | 20<br>sive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>mpler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
| sive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  | sive Strength (UCS) Failure Mode Is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>npler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | sive Strength (UCS) Failure Mode is indicated by (8-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>npler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>um of the last two blow values in each sampling zone (AASHTO 1206) BBS, from 137 (Rev. 8-99)   |
| ive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)   | ive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>ipler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>m of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | ive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>pler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>m of the last two blow values in each sampling zone (AASHTO 1206) BBS, from 137 (Rev. 8-99)  |
| ve Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  | ive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>pler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>m of the last two blow values in each sampling zone (AASHTO 1206) BBS, from 137 (Rev. 8-99)   | ve Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)<br>pler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S Before Seating<br>m of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)   |
| um of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)  | RORING 3  | BORING 3   |

## ILLINOIS FED. AID PROJECT Klingner & Associates P.C.