H WELLPLANNING DETAILED DIRECTIONAL SURVEY REPORT SURVEY_DATE 10/18/2014
H HEADER INFORMATION $\qquad$
H COMPANY : Cheuron Appalachia, LLC
H FIELD : Marshall County, WV
HSITE : Francis Pad
H WELL : Francls 3H
H WELLPATH : Francis 3H
H DEPTH UNIT: ft
H WELL \& MAP INFORMATION
H Geodetic System: US State Plane 1983
H GeodeticDatum: North American Datum 1983
H Map Zone: West Virginia Northern Zone
H WELL EW MAP : 1633906.41
H WELL NS MAP : 502427.81
H DATUM ELEVN (KB-MSL) : 1292.00
H VSECT ANGLE : 112.54
H Azimuth Reference: True
H Magnetic Declination: -7.970
H Grid Convergence: $-\mathbf{0 . 7 6 0}$
H SURVEY TYPE INFORMATION
H 100.00-807.00 SURVEY $\$ 1$ - SOI GYRO IN 5" DRILL PIPE : SDI STANDARD KEEPER 103
H 852.00-2645.00 SURVEY \#2 - SDI MWD 12-1/4 HOLE : SDI MWD
H 2776.00-11655.00 SURVEY H3 - SDI MWD 8-1/2 HOLE : SDI MWD

| H SURVEY LIST |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MD | INC | AZI | TVD | v.Sec. | DLS | N/S | E/W | EASTING(X) | NORTHING(Y) | TOOL |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1633906.41 | 502427.813 | UNDEFINED |
| 100 | 0.12 | 117.84 | 100 | 0.1 | 0.12 | -0.05 | 0.09 | 1633906.51 | 502427.763 | SDI Standard Keeper 103 (1) |
| 200 | 0.1 | 158.84 | 200 | 0.27 | 0.08 | -0.18 | 0.22 | 1633906.63 | 502427.633 | SDI Standard Keeper 103 (1) |
| 300 | 0.09 | 251 | 300 | 0.27 | 0.14 | -0.29 | 0.17 | 1633906.58 | 502427.523 | SDI Standard Keeper 103 \{1\} |
| 400 | 0.12 | 287.81 | 400 | 0.11 | 0.07 | -0.28 | 0 | 1633906.41 | 502427.533 | SDI Standard Keeper 103 \{1) |
| 500 | 0.06 | 217.26 | 500 | -0.01 | 0.11 | . 0.29 | -0.13 | 1633906.28 | 502427.523 | SDI Standard Keeper 103 \{1) |
| 600 | 0.13 | 17.26 | 600 | -0.03 | 0.19 | . 0.22 | -0.13 | 1633906.28 | 502427.593 | SDI Standard Keeper 103 (1) |
| 712 | 0.12 | 300.62 | 712 | -0.16 | 0.14 | -0.04 | -0.19 | 1633906.22 | 502427.773 | SDI Standard Keeper 103 (1) |
| 807 | 0.16 | 231.55 | 807 | -0.32 | 0.17 | . 0.07 | -0.38 | 1633906.03 | 502427.743 | SDI Standard Keeper 103 (1) |
| 852 | 0.19 | 31.08 | 852 | -0.34 | 0.77 | -0.05 | -0.39 | 1633906.02 | 502427.773 | SDI MWD (2) |
| 947 | 0.14 | 221.54 | 947 | -0.36 | 0.35 | 0 | -0.39 | 1633906.03 | 502427.823 | SOI MWO (2) |
| 1042 | 2 | 49.61 | 1042 | 0.36 | 2.25 | 0.99 | 0.8 | 1633907.22 | 502428.793 | SDI MWO (2) |
| 1135 | 2.88 | 46.95 | 1134.9 | 2.06 | 0.95 | 3.63 | 3.74 | 1633910.2 | 502431.403 | SDI MWO (2) |
| 1229 | 3 | 40.53 | 1228.8 | 3.8 | 0.37 | 7.12 | 7.06 | 1633913.57 | 502434.833 | SDI MWD (2) |
| 1324 | 3.42 | 50.06 | 1323.6 | 5.87 | 0.71 | 10.82 | 10.85 | 1633917.41 | 502438.493 | 5DI MWO (2) |
| 1419 | 4.47 | 64.54 | 1418.4 | 9.66 | 1.52 | 14.23 | 16.37 | 1633922.97 | 502441.833 | SOI MWO (2) |
| 1512 | 3.99 | 62.38 | 1511.1 | 14.16 | 0.54 | 17.29 | 22.51 | 1633929.15 | 502444.803 | SDI MWD (2) |
| 1606 | 4.01 | 62.94 | 1604.9 | 18.38 | 0.05 | 20.3 | 28.33 | 1633935.01 | 502447.743 | SDI MWO (2) |
| 1701 | 4.59 | 74.43 | 1699.7 | 23.53 | 1.09 | 22.84 | 34.95 | 1633941.67 | 502450.183 | SDI MWD \{2) |
| 1795 | 4.43 | 71.89 | 1793.4 | 29.24 | 0.27 | 24.97 | 42.03 | 1633948.77 | 502452.233 | SDI MWO \{2) |
| 1890 | 4.48 | 71.04 | 1888.1 | 34.8 | 0.09 | 27.32 | 49.02 | 1633955.79 | 502454.483 | SDI MWO \{2\} |
| 1984 | 4.58 | 64.57 | 1981.8 | 40.07 | 0.55 | 30.12 | 55.88 | 1633962.69 | 502457.193 | SDI MWD \{2] |
| 2079 | 4.89 | 61.79 | 2076.5 | 45.17 | 0.41 | 33.67 | 62.88 | 1633969.73 | 502460.643 | SDI MWD \{2\} |
| 2174 | 5.09 | 63.2 | 2171.1 | 50.48 | 0.25 | 37.48 | 70.21 | 1633977.11 | 502464.363 | SDI MWD (2) |
| 2267 | 3.53 | 63.42 | 2263.8 | 55.04 | 1.68 | 40.62 | 76.45 | 1633983.4 | 502467.423 | SDI MWD (2) |
| 2362 | 3.13 | 64.86 | 2358.7 | 58.7 | 0.43 | 43.03 | 81.41 | 1633988.39 | 502469.763 | SDI MWD (2) |
| 2457 | 2.84 | 62.08 | 2453.5 | 61.94 | 0.34 | 45.24 | 85.84 | 1633992.85 | 502471.903 | SDIMWD (2) |
| 2551 | 3.19 | 58.6 | 2547.4 | 64.97 | 0.42 | 47.69 | 90.13 | 1633997.17 | 502474.303 | SDIMWD (2) |
| 2645 | 2.92 | 53.14 | 2641.3 | 67.72 | 0.42 | 50.49 | 94.28 | 1634001.35 | 502477.043 | SDIMWD (2) |
| 2776 | 2.39 | 47.41 | 2772.1 | 70.57 | 0.45 | 54.34 | 98.96 | 1634006.09 | 502480.833 | SDI MWD (3) |
| 2870 | 1.68 | 40.12 | 2866.1 | 71.81 | 0.8 | 56.72 | 101.29 | 1634008.45 | 502483.183 | SDI MWD (3) |
| 2964 | 0.75 | 45.46 | 2960.1 | 72.47 | 1 | 58.2 | 102.62 | 1634009.79 | 502484653 | O SDI MWD (3) |
| 3059 | 0.31 | 26.35 | 3055 | 72.73 | 0.49 | 58.87 | 103.17 | 1634010.36 | 50248545 | 5 Staptyo (3) |
| 3153 | 0.11 | 207 | 3149 | 72.74 | 0.45 | 59.02 | 103.25 | 1634010.43 | co2ass 458 | SDI MWD (3) |
| 3248 | 0.45 | 249.92 | 3244 | 72.45 | 0.4 | 58.81 | 102.85 | 1634010.04 | \$02485.253 | ${ }^{5}$ SDI MWD (3) |
| 3343 | 0.63 | 299.42 | 3339 | 71.66 | 0.51 | 58.94 | 102.05 | 1634009.24 | 502485 | 2.15 SDI MWD (3) |
| 3437 | 0.45 | 318.28 | 3433 | 70.82 | 0.27 | 59.47 | 101.35 | 1634008.55 | 502485.933 | SDI MWD (3) |
| 3531 | 0.68 | 324.45 | 3527 | 70.01 | 0.25 | 60.2 | 100.78 | 1634007.99 | 502486.663 | SDI MWD (3) |
| 3626 | 0.92 | 311.06 | 3622 | 68.81 | 0.32 | 61.15 | 99.88 | 1634007.1 | 502487.643 | SDI MWD (3) |
| 3720 | 0.92 | 305.52 | 3716 | 67.36 | 0.09 | 62.09 | 98.7 | 1634005.93 | 502488.593 | SDI MWD (3) |


| 3815 | 0.84 | 306.6 | 3811 | 65.94 | 0.09 | 62.95 | 97.52 | 1634004.76 | 502489.463 | SDIMWD (3) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3910 | 0.89 | 318.45 | 3906 | 64.6 | 0.2 | 63.91 | 96.47 | 1634003.72 | 502490.443 | SOI MWO (3) |
| 4004 | 0.67 | - 342.43 | 4000 | 63.59 | 0.41 | 64.98 | 95.82 | 1634003.09 | 502491.523 | SDI MWD (3) |
| 4099 | 0.65 | 354.71 | 4095 | 62.98 | 0.15 | 66.05 | 95.6 | 1634002.88 | 502492.593 | SDI MWD (3) |
| 4194 | 0.6 | 346.92 | 4190 | 62.44 | 0.1 | 67.07 | 95.44 | 1634002.73 | 502493.613 | SDIMWD (3) |
| 4316 | 0.7 | 336.25 | 4312 | 61.53 | 0.13 | 68.38 | 94.99 | 1634002.31 | 502494.923 | SDI MWD (3) |
| 4410 | 0.71 | 203.7 | 4406 | 61.1 | 1.37 | 68.37 | 94.53 | 1634001.84 | 502494.923 | SDI MWD (3) |
| 4505 | 0.83 | 196.86 | 4501 | 61.16 | 0.16 | 67.17 | 94.09 | 1634001.39 | 502493.733 | SDIMWD (3) |
| 4552 | 0.82 | 194.07 | 4547.9 | 61.24 | 0.09 | 66.52 | 93.91 | 1634001.2 | 502493.083 | SDIMWD (3) |
| 4600 | 1.14 | 101.24 | 4595.9 | 61.76 | 2.99 | 66.09 | 94.3 | 1634001.58 | 502492.653 | SDIMWD (3) |
| 4647 | 3.57 | 87.44 | 4642.9 | 63.54 | 5.27 | 66.07 | 96.22 | 1634003.5 | 502492.603 | SDIMWO (3) |
| 4694 | 6.93 | 79.57 | 4689.7 | 67.25 | 7.29 | 66.65 | 100.47 | 1634007.76 | 502493.123 | SDIMWD (3) |
| 4789 | 13.6 | 72.81 | 4783.1 | 80.66 | 7.12 | 70.99 | 116.8 | 1634024.14 | 502497.253 | SDI MWD (3) |
| 4883 | 19.61 | 71.94 | 4873.2 | 101.16 | 6.4 | 79.15 | 142.37 | 1634049.83 | 502505.073 | SDI MWD (3) |
| 4978 | 25.49 | 70.29 | 4960.9 | 128.42 | 6.22 | 91 | 176.8 | 1634084.41 | 502516.463 | SDI MWD (3) |
| 5072 | 30.19 | 68.88 | 5044 | 160.5 | 5.05 | 106.35 | 217.92 | 1634125.72 | 502531.263 | SDI MWO (3) |
| 5167 | 39.61 | 71.48 | 5121.8 | 200.71 | 10.04 | 124.62 | 269.03 | 1634177.08 | 502548.853 | SDI MWO (3) |
| 5262 | 51.72 | 73.99 | 5188.1 | 252.91 | 12.88 | 144.59 | 333.84 | 1634242.14 | 502567.963 | SDI MWO (3) |
| 5357 | 65.55 | 68.98 | 5237.4 | 313.73 | 15.23 | 170.53 | 410.45 | 1634319.09 | 502592.883 | SDI MWD (3) |
| 5451 | 67.83 | 66.01 | 5274.6 | 374.69 | 3.78 | 203.58 | 490.18 | 1634399.25 | 502624.873 | SDI MWO (3) |
| 5545 | 67.16 | 64.8 | 5310.6 | 433.77 | 1.39 | 239.72 | 569.14 | 1634478.68 | 502659.963 | SDI MWD (3) |
| 5640 | 66.63 | 63.55 | 5347.9 | 491.82 | 1.33 | 277.78 | 647.79 | 1634557.83 | 502696.973 | SDI MWD (3) |
| 5735 | 65.86 | 62.58 | 5386.1 | 548.32 | 1.24 | 317.17 | 725.31 | 1634635.86 | 502735.333 | SDIMWD (3) |
| 5829 | 64.35 | 64.25 | 5425.7 | 604.11 | 2.28 | 355.33 | 801.55 | 1634712.61 | 502772.473 | SDIMWD (3) |
| 5925 | 62.11 | 65.7 | 5469 | 661.93 | 2.69 | 391.59 | 879.2 | 1634790.73 | 502807.703 | SDIMWO (3) |
| 6019 | 59.1 | 66.13 | 5515.1 | 718.17 | 3.23 | 425.01 | 953.96 | 1634865.93 | 502840.133 | SDIMWD (3) |
| 6113 | 56.96 | 67.67 | 5564.9 | 773.91 | 2.67 | 456.31 | 1027.29 | 1634939.67 | 502870.453 | SDIMWD (3) |
| 6208 | 58.2 | 67.63 | 5615.8 | 830.72 | 1.31 | 486.8 | 1101.46 | 1635014.24 | 502899.953 | SOIMWD (3) |
| 6302 | 56.87 | 66.81 | 5666.2 | 886.49 | 1.59 | 517.51 | 1174.58 | 1635087.76 | 502929.683 | SDI MWD (3) |
| 6397 | 56.86 | 66.23 | 5718.2 | 941.73 | 0.51 | 549.2 | 1247.55 | 1635161.14 | 502960.413 | SDIMWD (3) |
| 6491 | 55.2 | 65.19 | 5770.7 | 995.06 | 1.99 | 581.26 | 1318.6 | 1635232.61 | 502991.523 | SDIMWD (3) |
| 6586 | 56.57 | 65.92 | 5824 | 1048.72 | 1.58 | 613.8 | 1390.2 | 1635304.64 | 503023.113 | SDIMWD (3) |
| 6680 | 56.63 | 67.73 | 5875.7 | 1103.51 | 1.61 | 644.68 | 1462.34 | 1635377.18 | 503053.033 | SDIMWD (3) |
| 6775 | 55.94 | 67.01 | 5928.5 | 1159.22 | 0.96 | 675.09 | 1535.28 | 1635450.51 | 503082.473 | SDIMWD (3) |
| 6870 | 56.58 | 68.24 | 5981.2 | 1215.17 | 1.27 | 705.16 | 1608.33 | 1635523.96 | 503111.563 | SDIMWD (3) |
| 6965 | 55.9 | 68.15 | 6034 | 1271.65 | 0.72 | 734.49 | 1681.66 | 1635597.67 | 503139.923 | SDI MWO (3) |
| 7060 | 54.74 | 67.47 | 6088.1 | 1327.15 | 1.36 | 763.99 | 1753.99 | 1635670.39 | 503168.463 | SDI MWO (3) |
| 7154 | 56.73 | 66.5 | 6141 | 1381.54 | 2.28 | 794.37 | 1825.49 | 1635742.28 | 503197.893 | SDIMWO (3) |
| 7249 | 56.42 | 66.53 | 6193.3 | 1436.59 | 0.33 | 825.97 | 1898.21 | 1635815.41 | 503228.523 | SDIMWD (3) |
| 7343 | 55.57 | 66.18 | 6245.9 | 1490.54 | 0.96 | 857.22 | 1969.59 | 1635887.2 | 503258.823 | SDIMWD (3) |
| 7390 | 56.61 | 70.85 | 6272.1 | 1518.58 | 8.54 | 871.49 | 2005.87 | 1635923.67 | 503272.613 | SDIMWD (3) |
| 7437 | 57.69 | 76.93 | 6297.6 | 1549.4 | 11.11 | 882.43 | 2043.78 | 1635961.72 | 503283.043 | SOIMWD (3) |
| 7484 | 57.87 | 79.76 | 6322.7 | 1582.29 | 5.11 | 890.46 | 2082.72 | 1636000.76 | 503290.553 | SOIMWD (3) |
| 7532 | 57.44 | 80.84 | 6348.4 | 1616.58 | 2.1 | 897.29 | 2122.69 | 1636040.82 | 503296.853 | SOIMWD (3) |
| 7579 | 58.32 | 82.15 | 6373.4 | 1650.69 | 3.01 | 903.18 | 2162.06 | 1636080.26 | 503302.223 | SOIMWD (3) |
| 7627 | 58.01 | 85.98 | 6398.7 | 1686.52 | 6.81 | 907.39 | 2202.61 | 1636120.86 | 503305.903 | SDIMWD (3) |
| 7674 | 58.42 | 90.04 | 6423.5 | 1722.86 | 7.39 | 908.78 | 2242.52 | 1636160.79 | 503306.753 | SOI MWD (3) |
| 7722 | 61.84 | 94.89 | 6447.4 | 1761.94 | 11.29 | 906.96 | 2284.08 | 1636202.32 | 503304.383 | SDI MWO (3) |
| 7769 | 69.18 | 103.2 | 6466.9 | 1803.47 | 22.41 | 900.16 | 2326.23 | 1636244.38 | 503297.023 | SDI MWD (3) |
| 7817 | 75.95 | 109.15 | 6481.3 | 1848.94 | 18.4 | 887.37 | 2370.15 | 1636288.12 | 503283.653 | SDI MWO (3) |
| 7864 | 76.75 | 109.25 | 6492.3 | 1894.54 | 1.71 | 872.35 | 2413.28 | 1636331.05 | 503268.063 | SDI MWD (3) |
| 7912 | 78.15 | 114.25 | 6502.8 | 1941.37 | 10.58 | 854.99 | 2456.78 | 1636374.32 | 503250.123 | SOI MWD (3) |
| 7959 | 80.2 | 119.83 | 6511.6 | 1987.37 | 12.45 | 834.01 | 2497.87 | 1636415.13 | 503228.603 | SOI MWD (3) |
| 8006 | 82.33 | 123.78 | 6518.8 | 2033.2 | 9.46 | 809.53 | 2537.34 | 1636454.27 | 503203.603 | SDI MWO (3) |
| 8053 | 81.8 | 124.13 | 6525.2 | 2078.83 | 1.35 | 783.53 | 2575.95 | 1636492.53 | 503177.093 | SDI MWD (3) |
| 8101 | 80.43 | 127.02 | 6532.7 | 2125.03 | 6.6 | 755.94 | 2614.52 | 1636530.73 | 503148.993 | SDI MWD (3) |
| 8148 | 78.03 | 130 | 6541.4 | 2169.41 | 8.05 | 727.2 | 2650.64 | 1636566.47 | 503119.783 | SDI MWO (3) |
| 8196 | 80.04 | 135.89 | 6550.6 | 2213.55 | 12.75 | 695.11 | 2685.12 | 1636600.51 | 503087.233 | SDI MWD (3) |
| 8243 | 84.08 | 139.57 | 6557.1 | 2255.65 | 11.58 | 660.67 | 2716.41 | 1636631.35 | 503052.383 | SDI MWD (3) |
| 8290 | 88.52 | 140.97 | 6560.1 | 2297.16 | 9.9 | 624.61 | 2746.38 | 1636660.83 | 503015.923 | SDI MWD (3) |
| 8337 | 87.18 | 137.77 | 6561.9 | 2339.06 | 7.38 | 588.97 | 2776.96 | 1636690.94 | 502979.883 | SDI MWD (3) |
| 8385 | 87.01 | 137.4 | 6564.3 | 2382.49 | 0.85 | 553.58 | 2809.29 | 1636722.8 | 502944.063 | SDI MWO (3) |
| 8480 | 91.01 | 139.24 | 6565.9 | 2468 | 4.63 | 482.65 | 2872.44 | 1636785 | 502872.303 | SDI MWO (3) |
| 8575 | 89.78 | 141.09 | 6565.3 | 2552.17 | 2.34 | 409.71 | 2933.29 | 1636844.87 | 502798.563 | SDI MWD (3) |
| 8669 | 90.04 | 139.77 | 6565.4 | 2635.25 | 1.43 | 337.25 | 2993.16 | 1636903.78 | 502725.313 | SDI MWD (3) |
| 8764 | 89.16 | 140.74 | 6566.1 | 2719.34 | 1.38 | 264.21 | 3053.9 | 1636963.55 | 502651.473 | SDI MWD (3) |
| 8859 | 87.67 | 139.6 | 6568.7 | 2803.47 | 1.97 | 191.29 | 3114.72 | 1637023.4 | 502577.753 | SDI MWD (3) |
| 8953 | 86.88 | 139.6 | 6573.2 | 2887.09 | 0.84 | 119.78 | 3175.58 | 1637083.3 | 502505.443 | SDI MWO (3) |


| 9048 | 89.52 | 138.37 | 6576.2 | 2972.1 | 3.07 | 48.15 | 3237.89 | 1637144.65 | 502432.993 | SDIMWD (3) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9143 | 89.96 | 138.1 | 6576.6 | 3057.7 | 0.54 | -22.71 | 3301.16 | 1637206.98 | 502361.303 | SDI MWO (3) |
| 9238 | 89.87 | 137.4 | 6576.8 | 3143.65 | 0.74 | -93.03 | 3365.04 | 1637269.91 | 502290.133 | SDI MWD (3) |
| 9332 | 89.6 | 135.9 | 6577.2 | 3229.45 | 1.62 | -161.38 | 3429.56 | 1637333.52 | 502220.933 | SDI MWD (3) |
| 9426 | 91.63 | 143.73 | 6576.2 | 3312.92 | 8.6 | - 233.13 | 3490.16 | 1637393.17 | 502148.393 | SDI MWD (3) |
| 9521 | 88.2 | 142.94 | 6576.3 | 3394.52 | 3.71 | -309.32 | 3546.88 | 1637448.87 | 502071.453 | SDI MWD (3) |
| 9615 | 86.09 | 141.53 | 6581 | 3476.06 | 2.7 | -383.54 | 3604.37 | 1637505.37 | 501996.483 | SDI MWD (3) |
| 9710 | 89.52 | 142.06 | 6584.6 | 3558.87 | 3.65 | -458.12 | 3663.07 | 1637563.08 | 501921.123 | SDI MWD (3) |
| 9804 | 89.16 | 141.62 | 6585.7 | 3640.84 | 0.6 | -532.03 | 3721.15 | 1637620.17 | 501846.453 | SDI MWD (3) |
| 9899 | 93.21 | 140.91 | 6583.8 | 3724.11 | 4.33 | -606.1 | 3780.57 | 1637678.6 | 501771.603 | SDI MWD (3) |
| 9994 | 93.21 | 140.91 | 6578.4 | 3807.57 | 0 | -679.72 | 3840.37 | 1637737.42 | 501697.193 | SDI MWD (3) |
| 10089 | 93.3 | 143.9 | 6573 | 3889.81 | 3.14 | -754.86 | 3898.23 | 1637794.28 | 501621.293 | SDI MWD (3) |
| 10183 | 89.25 | 144.96 | 6570.9 | 3969.59 | 4.45 | -831.29 | 3952.88 | 1637847.91 | 501544.153 | SDI MWD (3) |
| 10278 | 86.7 | 144.69 | 6574.3 | 4049.84 | 2.7 | -908.88 | 4007.57 | 1637901.57 | 501465.833 | SDI MWD (3) |
| 10372 | 86.17 | 144.69 | 6580.2 | 4129.28 | 0.56 | -985.44 | 4061.8 | 1637954.77 | 501388.563 | SDI MWO (3) |
| 10467 | 86 | 144.69 | 6586.6 | 4209.52 | 0.18 | -1062.79 | 4116.58 | 1638008.52 | 501310.493 | SDI MWO (3) |
| 10562 | 89.87 | 143.37 | 6590.1 | 4290.46 | 4.3 | -1139.6 | 4172.33 | 1638063.25 | 501232.943 | SDI MWD (3) |
| 10657 | 90.31 | 142.67 | 6589.9 | 4372.33 | 0.87 | -1215.49 | 4229.48 | 1638119.38 | 501156.303 | SDI MWD (3) |
| 10751 | 89.6 | 141 | 6590 | 4454.31 | 1.93 | -1289.4 | 4287.56 | 1638176.48 | 501081.643 | SDI MWO (3) |
| 10846 | 89.69 | 140.3 | 6590.6 | 4538.1 | 0.74 | -1362.86 | 4347.8 | 1638235.73 | 501007.383 | SDI MWO (3) |
| 10941 | 88.9 | 140.21 | 6591.7 | 4622.19 | 0.84 | -1435.9 | 4408.53 | 1638295.49 | 500933.543 | SDI MWD (3) |
| 11036 | 88.37 | 139.95 | 6594 | 4706.4 | 0.62 | -1508.74 | 4469.48 | 1638355.47 | 500859.903 | SDI MWO (3) |
| 11130 | 88.11 | 139.77 | 6596.9 | 4789.88 | 0.34 | -1580.56 | 4530.05 | 1638415.08 | 500787.283 | SDI MWD (3) |
| 11225 | 88.02 | 140.47 | 6600.1 | 4874.04 | 0.74 | -1653.42 | 4590.92 | 1638474.98 | 500713.623 | SDI MWD (3) |
| 11320 | 87.58 | 140.21 | 6603.7 | 4958.01 | 0.54 | -1726.5 | 4651.51 | 1638534.59 | 500639.743 | SDI MWD (3) |
| 11414 | 87.49 | 139.51 | 6607.8 | 5041.45 | 0.75 | -1798.3 | 4712.05 | 1638594.18 | 500567.153 | SDI MWD (3) |
| 11509 | 91.8 | 139.24 | 6608.4 | 5126.19 | 4.55 | -1870.38 | 4773.89 | 1638655.05 | 500494.253 | SDI MWD (3) |
| 11583 | 91.63 | 139.77 | 6606.2 | 5192.12 | 0.75 | -1926.63 | 4821.92 | 1638702.34 | 500437.373 | SDI MWD (3) |
| 11655 | 91.63 | 139.77 | 6604.1 | 5256.11 | 0 | -1981.58 | 4868.41 | 1638748.09 | 500381.813 | SDI MWO (3) |

## Recelved 

