Welex

DIP LOG CALCULATIONS

COMPANY	REICHHOLD ENERGY CORPORATION		
WELL	COLUMBIA COUNTY NO. 3		
FIELD	NEHALEM BASIN		
COUNTY	COLUMBIA	**STATE**	OREGON

WELEX
A Halliburton Company

·16061

```
INTERVAL      GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  ½  NO.1 NO.2 NO.3

 413.3   414.5 B   35.8   30.    0.7    2. 281.  7.1  0.0 =3.40  0.90
 414.5   415.5 C   18.0  344.    0.7   21. 278.  7.4  0.0 =0.30  1.70
 428.3   430.3 C    9.3   31.    0.7    7. 231.  7.3  0.0 =1.10 =0.70
 430.3   432.5 C    5.8   40.    0.7    7. 233.  7.4  0.0 =0.70 =0.50
 432.5   434.3 B    7.5   27.    0.7  360. 224.  7.4  0.0 =0.90 =0.60
 434.3   436.0 B   11.9   34.    0.7  356. 221.  7.3  0.0 =1.30 =1.10
 436.0   438.0 C   13.6   15.    0.7  355. 220.  7.3  0.0 =1.60 =0.90
 438.5   440.0 B    8.5  315.    0.7  352. 215.  7.4  0.0 =0.70  0.30
 440.0   442.0 B   12.8  303.    0.8  341. 209.  7.3  0.0 =0.90  0.60
 442.0   444.0 C   18.7  314.    0.8  334. 206.  7.3  0.0 =1.70  0.40
 444.0   446.0 B   11.5  314.    0.7  342. 209.  7.3  0.0 =1.00  0.30
 446.0   448.0 B    9.4  300.    0.7  345. 210.  7.3  0.0 =0.60  0.50
 448.0   450.0 C    5.6  329.    0.7  349. 212.  7.3  0.0 =0.60  0.0
 450.3   452.0 C    6.0  184.    0.7  356. 216.  7.4  0.0  0.60  0.30
 452.0   454.0 B   10.3  314.    0.7  358. 216.  7.4  0.0 =0.80  0.40
 454.0   455.0 B   11.2  299.    0.6    2. 215.  7.4  0.0 =0.60  0.70
 456.0   458.0 B    7.1  317.    0.6    9. 215.  7.3  0.0 =0.60  0.20
 458.0   460.0 B    8.1  301.    0.5   21. 204.  7.3  0.0 =0.60  0.30
 460.0   462.0 C   17.5  129.    0.5   21. 182.  7.3  0.0  1.80  0.20
 462.0   464.0 B   19.3  268.    0.4   21. 163.  7.3  0.0 =1.60  0.50
 464.0   466.0 B   15.0  295.    0.4   22. 145.  7.3  0.0 =1.70 =0.90
 466.0   468.0 B   14.6  318.    0.4   23. 126.  7.3  0.0 =1.20 =1.60
 468.0   470.0 B   15.4  310.    0.4   28. 115.  7.3  0.0 =1.20 =1.70
 470.0   472.0 B   15.5  282.    0.4   34. 104.  7.3  0.0 =1.50 =1.50
 472.0   474.0 B   16.5  284.    0.5   32.  87.  7.2  0.0 =1.20 =1.80
 474.0   476.0 B   19.2  263.    0.5   24.  66.  7.2  0.0 =1.40 =2.10
 476.0   478.0 B   16.1  272.    0.6   21.  48.  7.2  0.0 =0.40 =1.70
 478.0   480.0 C   14.2  274.    0.6   21.  40.  7.2  0.0 =0.10 =1.40
 480.0   482.0 B   16.2  262.    0.6   21.  37.  7.2  0.0 =0.40 =1.70
 482.0   484.0 B   15.6  267.    0.6   21.  36.  7.3  0.0 =0.20 =1.60
 484.0   486.0 B   15.1  259.    0.6   21.  35.  7.3  0.0 =0.40 =1.60
 486.0   488.0 B   19.3  249.    0.6   21.  30.  7.2  0.0 =0.70 =2.10
 488.3   490.6 C   18.0  329.    0.6    8. 192.  7.4  0.0 =2.10 =0.70
 490.6   492.5 B    9.9  262.    0.6    7.   8.  7.5  0.0  0.40 =0.70
 492.5   494.0 C    9.8  265.    0.6    9.   8.  7.5  0.0  0.40 =0.70
 494.0   496.0 B   19.6  274.    0.6   10.  10.  7.5  0.0  1.00 =1.30
 496.0   498.0 B   13.4  258.    0.6   11.  21.  7.4  0.0  0.0  =1.30
 498.5   500.0 C   12.8  238.    0.5    6.  21.  7.4  0.0 =0.50 =1.40
 500.0   502.0 C    7.1  303.    0.5    3.  21.  7.4  0.0  0.60 =0.20
 502.0   504.0 B    3.9  230.    0.5    5.  26.  7.4  0.0 =0.20 =0.40
 504.0   506.0 B    3.7  281.    0.5   12.  35.  7.4  0.0  0.10 =0.30
 506.0   508.0 B    6.2  317.    0.5   13.  37.  7.3  0.0  0.50 =0.20
 508.0   510.0 B    4.4  317.    0.5    5.  33.  7.4  0.0  0.40 =0.10
 510.0   511.5 C    3.8  233.    0.5  359.  30.  7.4  0.0 =0.20 =0.40
 517.0   518.3 B    6.2   41.    0.5  335.  21.  7.4  0.0  0.50  0.70
 518.3   520.0 C    9.2  102.    0.5  327.  23.  7.6  0.0 =0.30  0.70
 520.0   521.8 C   16.3  110.    0.5  340.  43.  7.5  0.0 =0.20  1.50
 524.5   526.3 C   19.3   95.    0.5    7.  58.  7.3  0.0  0.90  2.20
 531.0   532.0 B    7.8  167.    0.5  358.  61.  7.5  0.0 =0.60  0.20
 539.0   540.3 C    7.8  295.    0.5  345.  68.  7.5  0.0  0.0  =0.80
 540.3   542.3 C    4.3  266.    0.5  342.  56.  7.4  0.0 =0.20 =0.50
 545.0   546.5 C    7.0  241.    0.5  346.  52.  8.0  0.0 =0.60 =0.80
 550.0   552.0 C   14.0  259.    0.5  315.  31.  7.7  0.0 =0.30 =1.60
 552.0   554.0 B   27.1  262.    0.5  307.  33.  7.8  0.0 =0.60 =3.30
 565.0   566.0 D   33.8  214.    0.5  322.  95.  7.4  0.0 =3.70  0.0
```

```
INTERVAL        GRADE ANGLE  AZ.   ANGLE AZ.  NO.1   13  NO.1 NO.2 NO.3

 574.0    575.0 C    33.3     2.    0.5  326.  63.   7.3  0.0  3.60 -0.10
 581.0    581.9 C    29.3    15.    0.5  355.  62.   7.8  0.0  3.70  0.90
 584.5    586.0 C    27.5   346.    0.5  315.  23.   7.9  0.0  3.60  1.40
 586.0    588.0 D    23.0   351.    0.5  310.  21.   8.0  0.0  3.00  1.50
 588.0    590.0 B    21.9   349.    0.5  310.  21.   7.9  0.0  2.80  1.30
 590.0    592.0 C    23.4     6.    0.5  316.  23.   7.8  0.0  2.90  2.00
 592.0    593.3 C    29.6   351.    0.5  320.  24.   7.8  0.0  3.90  1.80
 602.5    604.0 D    14.7   146.    0.5  337. 352.   7.3  0.0 -1.60 -0.90
 604.0    605.5 B    34.6   206.    0.5  337. 347.   7.4  0.0 -1.50 -4.30
 608.0    609.5 C    23.8   126.    0.5  335. 338.   7.5  0.0 -2.80 -1.30
 614.5    616.3 C    35.2   165.    0.5  321. 343.   7.5  0.0 -3.80 -4.00
 616.3    618.5 B    29.8   169.    0.5  337. 356.   7.4  0.0 -3.30 -2.90
 618.5    620.0 B    33.2   196.    0.6  345. 360.   7.4  0.0 -2.80 -4.00
 620.6    622.0 C    30.6   172.    0.6  342. 348.   7.3  0.0 -3.00 -3.30
 622.0    624.0 B    35.8   126.    0.6  333. 333.   7.2  0.0 -4.40 -2.40
 628.0    629.7 C    20.5   205.    0.6  309. 304.   7.2  0.0  0.90 -1.40
 629.7    632.0 B    19.8   207.    0.7  311. 308.   7.2  0.0  0.80 -1.40
 632.0    633.7 C     7.4   181.    0.7  316. 313.   7.2  0.0 -0.10 -0.70
 635.0    637.0 B     9.8   160.    0.7  320. 312.   7.2  0.0 -0.50 -1.00
 637.0    639.5 B     9.9   152.    0.7  321. 310.   7.2  0.0 -0.60 -1.00
 639.5    641.5 B     8.8   152.    0.7  323. 307.   7.3  0.0 -0.50 -0.90
 642.0    644.5 B    10.5   180.    0.7  327. 308.   7.3  0.0 -0.10 -1.00
 644.5    646.5 B     6.8   179.    0.7  328. 303.   7.3  0.0  0.0  -0.60
 646.5    648.5 B     9.6   191.    0.7  329. 291.   7.3  0.0  0.40 -0.60
 650.0    652.0 B     7.0   127.    0.7  310. 272.   7.3  0.0 -0.30 -0.70
 652.0    654.0 B     5.9   148.    0.7  309. 271.   7.3  0.0  0.0  -0.50
 654.0    656.0 B     6.8   171.    0.7  309. 270.   7.3  0.0  0.30 -0.40
 656.0    656.0 B     4.4   158.    0.7  309. 270.   7.3  0.0  0.10 -0.30
 658.0    660.0 B     9.5   205.    0.7  309. 270.   7.3  0.0  0.90  0.0
 660.0    662.0 B     8.5   205.    0.7  310. 270.   7.3  0.0  0.80  0.0
 662.0    664.0 B     5.2   231.    0.7  311. 269.   7.3  0.0  0.60  0.30
 664.0    666.0 B     6.2   247.    0.7  312. 269.   7.3  0.0  0.70  0.50
 666.0    668.0 B     7.5   290.    0.7  312. 266.   7.3  0.0  0.50  0.90
 668.0    670.0 B     5.2   264.    0.7  309. 260.   7.4  0.0  0.50  0.60
 670.0    672.0 B     4.2   260.    0.7  308. 256.   7.4  0.0  0.40  0.50
 673.0    674.0 B     2.4   152.    0.7  306. 253.   7.5  0.0  0.10 -0.10
 674.0    676.0 B     5.9   156.    0.7  305. 251.   7.5  0.0  0.30 -0.30
 678.0    680.0 B     5.9   154.    0.7  305. 248.   7.4  0.0  0.30 -0.30
 680.0    682.0 B     2.8   232.    0.7  303. 245.   7.4  0.0  0.30  0.30
 682.0    684.0 B     4.0   188.    0.7  304. 244.   7.4  0.0  0.40  0.10
 684.0    686.0 C     1.5   160.    0.7  305. 244.   7.4  0.0  0.10  0.0
 686.0    688.0 B     6.6   175.    0.7  303. 241.   7.4  0.0  0.60  0.0
 688.0    690.0 C     3.8     7.    0.7  300. 238.   7.4  0.0 -0.40  0.0
 690.0    692.0 B     5.1    83.    0.7  296. 235.   7.4  0.0 -0.30 -0.50
 692.0    694.0 C     2.5    68.    0.7  293. 234.   7.5  0.0 -0.20 -0.20
 696.0    698.0 B     4.5    67.    0.7  300. 240.   7.4  0.0 -0.40 -0.40
 698.0    700.0 B     5.0    87.    0.7  302. 239.   7.4  0.0 -0.30 -0.50
```

```
  700.0    702.0 B    2.4   95.    0.7  301. 236.  7.4  0.0 -0.10 -0.20
  702.0    704.0 C    0.7  116.    0.7  297. 231.  7.4  0.0  0.0   0.0
  704.0    706.0 B    3.4  125.    0.7  296. 229.  7.4  0.0  0.10 -0.20
  706.0    708.0 B    0.9   35.    0.7  298. 233.  7.4  0.0 -0.10  0.0
  708.0    710.0 B    7.7   88.    0.7  300. 236.  7.4  0.0 -0.40 -0.80
  710.0    712.0 B    5.8  116.    0.7  302. 236.  7.4  0.0  0.0  -0.50
  712.0    714.0 C    0.7  120.    0.7  301. 236.  7.4  0.0  0.0   0.0
  714.0    716.0 C    6.0  152.    0.7  301. 236.  7.4  0.0  0.40 -0.20
```

```
 CORRELATION  CORR. DIP    DIP  DRFT  DRFT AZ.   DIA  DISPLACEMENTS
 INTERVAL     GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13   NO.1 NO.2 NO.3


  716.0    718.0 C    4.2  139.    0.7  299. 233.  7.4  0.0  0.20 -0.20
  718.0    720.0 C    2.8  196.    0.7  296. 230.  7.4  0.0  0.30  0.20
  720.0    722.0 B    3.0  176.    0.6  295. 229.  7.4  0.0  0.30  0.10
  722.0    724.0 C    1.4  242.    0.6  296. 228.  7.4  0.0  0.10  0.20
  724.0    726.0 C    5.2  151.    0.6  297. 227.  7.4  0.0  0.40 -0.10
  726.0    728.0 C    2.5  280.    0.6  298. 224.  7.4  0.0  0.0   0.30
  728.0    730.0 B    5.6  275.    0.6  296. 217.  7.4  0.0  0.0   0.60
  730.0    732.0 B    4.6  271.    0.6  292. 214.  7.4  0.0  0.0   0.50
  732.0    734.0 C    0.5  253.    0.6  290. 214.  7.4  0.0  0.0   0.10
  734.0    736.0 B    2.6   97.    0.6  290. 214.  7.5  0.0  0.0  -0.20
  736.0    738.0 B    2.7   27.    0.6  291. 214.  7.5  0.0 -0.30 -0.20
  738.0    740.0 C    3.0  157.    0.6  286. 208.  7.5  0.0  0.30  0.10
  740.5    742.0 C    7.4  190.    0.6  285. 209.  7.4  0.0  0.80  0.60
  742.0    744.0 C   10.5  231.    0.6  290. 215.  7.4  0.0  0.80  1.20
  745.0    746.0 C    4.9  254.    0.7  292. 218.  7.4  0.0  0.20  0.60
  748.0    750.0 B    4.7  184.    0.7  292. 216.  7.4  0.0  0.50  0.30
  750.0    752.0 C    4.1  259.    0.7  290. 215.  7.4  0.0  0.10  0.50
  752.0    754.0 B    6.8  231.    0.7  289. 214.  7.4  0.0  0.50  0.80
  754.0    756.0 A    4.9  250.    0.7  290. 214.  7.4  0.0  0.20  0.60
  756.0    758.0 A    4.0  245.    0.7  290. 215.  7.4  0.0  0.20  0.50
  758.0    760.0 A    5.1  227.    0.7  291. 215.  7.4  0.0  0.40  0.60
  760.0    762.0 B    4.9  238.    0.7  293. 215.  7.4  0.0  0.30  0.60
  762.0    764.0 B    4.1  230.    0.7  293. 215.  7.4  0.0  0.30  0.50
  767.3    768.0 C    6.7  152.    0.7  294. 216.  7.4  0.0  0.60  0.0
  768.0    769.5 C    1.4  265.    0.7  294. 215.  7.4  0.0  0.0   0.20
  770.0    772.0 B    5.6  178.    0.7  294. 215.  7.4  0.0  0.60  0.30
  772.0    774.0 B    2.9  181.    0.7  292. 214.  7.4  0.0  0.30  0.20
  774.0    776.0 C    6.1  223.    0.7  291. 213.  7.4  0.0  0.50  0.70
  778.0    780.5 B    6.1  224.    0.7  293. 214.  7.4  0.0  0.50  0.70
  780.5    782.0 B    6.1  223.    0.7  291. 213.  7.4  0.0  0.50  0.70
  782.0    784.0 B   11.4  225.    0.7  290. 211.  7.4  0.0  0.90  1.30
  784.0    786.0 B   10.9  235.    0.7  289. 211.  7.5  0.0  0.70  1.30
  786.0    788.0 C   13.9  197.    0.7  289. 211.  7.4  0.0  1.50  1.20
  788.0    790.0 C    6.6  169.    0.7  291. 210.  7.4  0.0  0.70  0.30
  790.0    792.0 C    7.8  120.    0.7  293. 211.  7.4  0.0  0.40 -0.40
  792.0    794.0 B    8.9  160.    0.7  295. 212.  7.4  0.0  0.90  0.20
  794.0    796.0 B    9.3  145.    0.6  297. 213.  7.4  0.0  0.80 -0.10
  796.0    798.0 C    6.7  147.    0.6  293. 211.  7.4  0.0  0.60  0.0
  798.0    800.0 B    8.5  163.    0.6  288. 208.  7.4  0.0  0.90  0.30
  800.0    802.0 C    7.7  115.    0.6  287. 206.  7.4  0.0  0.40 -0.40
```

```
  802.0    804.0 B    3.1  153.     0.6  286. 204.   7.4  0.0  0.30  0.10
  804.0    806.0 C    1.6   91.     0.6  285. 203.   7.4  0.0  0.0  -0.10
  806.0    808.0 B    7.5  160.     0.6  286. 203.   7.4  0.0  0.80  0.30
  808.0    809.5 C    9.7  125.     0.6  287. 204.   7.4  0.0  0.70 -0.30
  809.5    811.5 B    4.2  152.     0.6  288. 205.   7.3  0.0  0.40  0.10
  812.0    814.0 B    6.7  163.     0.6  290. 203.   7.3  0.0  0.70  0.30
  814.0    816.0 B    5.9  189.     0.6  291. 204.   7.3  0.0  0.60  0.50
  816.0    818.0 B    7.9  192.     0.6  291. 203.   7.3  0.0  0.80  0.70
  818.0    820.0 B    6.2  193.     0.6  290. 199.   7.4  0.0  0.60  0.60
  820.0    822.0 B    6.7  199.     0.6  289. 197.   7.4  0.0  0.60  0.70
  822.0    824.0 B    7.7  225.     0.6  288. 196.   7.4  0.0  0.40  0.90
  824.0    826.0 C    8.0   90.     0.6  286. 195.   7.4  0.0  0.20 -0.60
  826.0    828.0 C    9.7   75.     0.6  286. 194.   7.4  0.0  0.0  -0.90
  828.5    830.0 C    5.9  176.     0.6  286. 191.   7.4  0.0  0.60  0.50
  830.0    832.0 B   11.3  134.     0.6  287. 191.   7.4  0.0  1.10  0.10
```

```
INTERVAL      GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3

  832.5    834.0 B    7.9  210.     0.6  287. 188.   7.4  0.0  0.50  0.90
  834.0    836.0 B    9.5  193.     0.6  286. 186.   7.3  0.0  0.80  1.00
  836.0    838.0 B    8.2  200.     0.6  285. 186.   7.3  0.0  0.60  0.90
  838.0    840.0 B    8.8  211.     0.6  283. 185.   7.3  0.0  0.50  1.00
  840.0    842.0 C   11.6  227.     0.6  282. 183.   7.4  0.0  0.30  1.30
  842.0    844.0 B   10.5  204.     0.6  282. 183.   7.4  0.0  0.70  1.20
  844.0    846.0 B   12.4  224.     0.6  284. 183.   7.4  0.0  0.40  1.40
  846.0    848.0 B    8.7  214.     0.6  286. 182.   7.4  0.0  0.40  1.00
  850.3    852.0 B    9.1  221.     0.6  285. 176.   7.4  0.0  0.20  1.00
  852.0    854.0 B    8.1  218.     0.6  286. 174.   7.4  0.0  0.20  0.90
  854.0    856.0 B    2.6  110.     0.5  285. 172.   7.3  0.0  0.20  0.0
  856.0    858.0 C    5.5  344.     0.5  285. 169.   7.3  0.0 -0.60 -0.50
  858.0    860.0 C    6.4    8.     0.5  286. 168.   7.3  0.0 -0.50 -0.70
  860.0    862.0 B    5.2  329.     0.5  283. 165.   7.3  0.0 -0.60 -0.40
  862.0    864.0 B    5.3  291.     0.5  281. 162.   7.3  0.0 -0.60 -0.10
  868.0    870.0 C    5.0  263.     0.5  281. 164.   7.3  0.0 -0.40  0.20
  870.6    872.0 C   10.9  106.     0.6  283. 167.   7.3  0.0  1.00  0.0
  872.0    874.0 C    1.8  214.     0.6  285. 170.   7.3  0.0  0.0   0.20
  874.0    875.3 C    4.2  280.     0.6  287. 172.   7.3  0.0 -0.40  0.10
  878.0    879.5 B    3.6  194.     0.6  287. 174.   7.3  0.0  0.20  0.40
  883.9    884.5 C    5.6  224.     0.6  293. 179.   7.3  0.0  0.10  0.60
  888.5    890.0 C    4.7  179.     0.6  291. 163.   7.3  0.0  0.30  0.50
  890.0    892.0 C    9.3  299.     0.6  288. 152.   7.3  0.0 -1.10 -0.50
  892.0    894.0 C   22.8  229.     0.6  282. 137.   7.3  0.0 -1.50  1.20
  894.0    895.0 B    3.0  275.     0.6  277. 126.   7.3  0.0 -0.40 -0.20
  896.0    898.0 B    7.6  270.     0.5  273. 117.   7.3  0.0 -0.90 -0.50
  898.0    900.0 B   11.1  267.     0.5  272. 115.   7.3  0.0 -1.30 -0.70
  900.0    902.0 B    8.6  258.     0.5  274. 116.   7.3  0.0 -1.00 -0.40
  902.0    904.0 A    9.4  271.     0.5  278. 119.   7.3  0.0 -1.10 -0.60
  904.0    906.0 B    4.8  300.     0.5  283. 119.   7.2  0.0 -0.50 -0.50
  906.0    908.0 B    6.2  279.     0.4  284. 116.   7.2  0.0 -0.70 -0.50
```

```
  908.0    910.0 B    7.9  261.     0.4  284. 109.   7.2   0.0 =0.90 =0.50
  910.0    912.0 C    0.7  276.     0.4  283.  99.   7.2   0.0 =0.10 =0.10
  912.0    914.5 C   11.6  305.     0.3  284.  87.   7.2   0.0 =0.50 =1.30
  914.5    917.0 B   17.1  244.     0.2  291.  74.   7.2   0.0 =1.80 =1.50
  917.0    919.5 B   13.9  242.     0.2  298.  67.   7.2   0.0 =1.40 =1.30
  919.5    922.5 B   10.4  247.     0.2  307.  59.   7.3   0.0 =0.90 =1.10
  922.5    924.5 B    9.8  257.     0.2  320.  52.   7.3   0.0 =0.60 =1.10
  924.5    926.3 C   11.7  250.     0.3  330.  50.   7.3   0.0 =0.80 =1.30
  926.3    928.0 B   11.2  233.     0.3  334.  41.   7.3   0.0 =0.90 =1.20
  929.0    930.0 C   17.0  228.     0.3  330.  28.   7.3   0.0 =1.20 =1.90
  930.3    932.0 C   19.6  213.     0.4  333.  21.   7.2   0.0 =1.60 =2.10
  932.0    934.0 C   12.7  233.     0.4  332.  21.   7.2   0.0 =0.60 =1.40
  934.0    936.0 C   11.3  212.     0.5  329. 354.   7.2   0.0 =0.40 =1.20
  936.0    938.0 B    9.9  203.     0.5  328. 337.   7.2   0.0 =0.20 =1.00
  938.5    940.3 C    6.0  106.     0.5  329. 324.   7.2   0.0 =0.60 =0.20
  940.3    942.0 C    5.3  128.     0.5  330. 317.   7.2   0.0 =0.50 =0.40
  944.5    946.5 C   13.1  222.     0.5  334. 288.   7.3   0.0  1.20 =0.10
  950.0    951.5 C    2.0  198.     0.5  322. 241.   7.3   0.0  0.20  0.10
  953.5    954.5 B    5.4  334.     0.5  309. 221.   7.3   0.0 =0.50  0.10
  954.5    956.0 B    5.9  292.     0.6  312. 218.   7.3   0.0 =0.20  0.50
  956.0    958.0 B    1.5  339.     0.6  315. 213.   7.3   0.0 =0.20  0.0
  960.0    962.0 B    3.0  198.     0.7  313. 193.   7.2   0.0  0.20  0.30
  962.0    964.0 A    2.1  318.     0.7  306. 176.   7.2   0.0 =0.30 =0.10
  968.5    970.0 B   10.7  337.     0.5  298. 137.   7.2   0.0 =0.80 =1.20




INTERVAL      GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3


  970.0    972.0 A    8.6  311.     0.4  299. 125.   7.2   0.0 =0.80 =0.90
  972.0    974.0 B    7.1  295.     0.3  306. 116.   7.2   0.0 =0.70 =0.70
  974.0    976.0 A    8.1  262.     0.2  318. 110.   7.2   0.0 =0.90 =0.50
  976.0    978.0 B   11.2  359.     0.1  335. 105.   7.2   0.0  0.30 =0.90
  978.0    980.0 A   10.8  306.     0.1  351.  97.   7.2   0.0 =0.60 =1.20
  980.0    982.0 B   12.0  300.     0.1  360.  83.   7.1   0.0 =0.50 =1.30
  982.0    984.0 B    7.7  256.     0.1  360.  63.   7.1   0.0 =0.60 =0.80
  984.0    986.0 A   11.1  254.     0.1  359.  45.   7.1   0.0 =0.60 =1.20
  986.0    988.0 C   16.9  265.     0.1    4.  38.   7.2   0.0 =0.40 =1.80
  992.0    994.0 B    6.7  243.     0.2   21.  21.   7.2   0.0 =0.20 =0.70
  994.0    996.0 B    8.8  244.     0.3   21.   6.   7.1   0.0  0.0  =0.80
  996.0    998.0 C    8.3  237.     0.3   21. 352.   7.1   0.0  0.10 =0.70
  998.0   1000.0 B   11.5  234.     0.4    2. 337.   7.1   0.0  0.40 =0.80
 1000.0   1002.0 C   10.2  252.     0.5  348. 320.   7.1   0.0  0.90 =0.10
 1002.0   1004.0 B   12.1  258.     0.6  340. 304.   7.1   0.0  1.30  0.40
 1004.0   1006.0 C   12.9  223.     0.6  336. 294.   7.2   0.0  1.10 =0.20
 1008.0   1009.5 C   21.1  186.     0.6  327. 285.   7.1   0.0  0.90 =1.40
 1015.0   1015.9 C   29.7  209.     0.6  325. 269.   7.2   0.0  3.10  0.10
 1020.6   1022.0 B   11.5  118.     0.6  323. 256.   7.3   0.0 =0.40 =1.20
 1022.0   1024.0 B    9.2  133.     0.6  329. 265.   7.2   0.0 =0.20 =0.90
 1024.0   1026.0 C    6.9  217.     0.6  335. 266.   7.2   0.0  0.70  0.20
 1026.0   1028.0 C    2.3   90.     0.6  339. 255.   7.2   0.0 =0.20 =0.20
 1028.0   1030.0 B   10.6  298.     0.6  338. 245.   7.2   0.0  0.10  1.10
 1030.6   1032.3 C   20.7  326.     0.6  338. 237.   7.1   0.0 =1.20  1.20
 1032.3   1034.3 B   15.8  319.     0.6  333. 226.   7.1   0.0 =1.00  0.80
 1034.3   1036.0 B   13.5  331.     0.6  329. 215.   7.2   0.0 =1.30  0.10
 1036.0   1038.0 B    5.2  126.     0.6  328. 207.   7.2   0.0  0.30 =0.20
 1038.0   1039.5 C    1.8   30.     0.6  327. 196.   7.2   0.0 =0.20 =0.20
 1040.0   1041.5 B   14.3  281.     0.6  324. 181.   7.2   0.0 =1.10  0.50
```

```
1042.5   1044.3 C   15.7  208.    0.6  323. 171.  7.2  0.0  0.60  1.70
1048.0   1050.0 C   16.8   82.    0.6  312. 150.  7.1  0.0  1.40 -0.30
1052.0   1054.0 C   10.2  141.    0.6  317. 153.  7.2  0.0  1.00  0.80
1054.0   1055.5 C    9.9  272.    0.6  320. 155.  7.3  0.0 -1.00  0.0
1056.0   1057.0 C   10.2  300.    0.6  324. 157.  7.3  0.0 -1.20 -0.50
1058.0   1059.5 B   11.6  325.    0.6  329. 158.  7.3  0.0 -1.30 -1.00
1063.9   1064.7 C    5.9  351.    0.6  312. 143.  7.3  0.0 -0.40 -0.70
1070.6   1072.0 C    8.4  321.    0.6  322. 165.  7.3  0.0 -1.00 -0.60
1072.5   1073.3 C   10.4  351.    0.6  320. 165.  7.3  0.0 -1.00 -1.10
1074.0   1075.0 B   12.0  353.    0.6  318. 164.  7.3  0.0 -1.10 -1.30
1078.0   1080.0 B   12.9  346.    0.5  316. 165.  7.3  0.0 -1.30 -1.30
1080.0   1082.0 A   15.4  353.    0.5  316. 169.  7.3  0.0 -1.50 -1.60
1082.0   1084.0 B   12.9  348.    0.5  313. 167.  7.3  0.0 -1.30 -1.30
1084.0   1087.5 B   12.1  344.    0.5  307. 163.  7.2  0.0 -1.20 -1.20
1090.0   1092.0 C   15.9  357.    0.5  301. 167.  7.2  0.0 -1.40 -1.70
1092.0   1094.0 C   13.4  341.    0.5  312. 184.  7.1  0.0 -1.50 -0.90
1094.0   1096.0 B    6.9  287.    0.5  321. 200.  7.2  0.0 -0.40  0.40
1096.0   1098.0 B   10.4  294.    0.5  320. 206.  7.2  0.0 -0.60  0.60
1098.0   1100.0 B    9.7  289.    0.5  327. 210.  7.2  0.0 -0.40  0.70
1100.0   1102.0 C   17.7  311.    0.5  327. 209.  7.2  0.0 -1.40  0.60
1102.0   1104.0 B   18.6  318.    0.5  314. 206.  7.2  0.0 -1.70  0.30
1104.0   1106.0 B    6.2  353.    0.4  297. 205.  7.2  0.0 -0.70 -0.30
1106.0   1108.0 B   12.8  320.    0.3  278. 204.  7.2  0.0 -1.20  0.10
1108.0   1110.5 A   12.0  327.    0.2  251. 202.  7.2  0.0 -1.20 -0.10
1110.5   1113.3 B   11.4  338.    0.2  214. 204.  7.2  0.0 -1.20 -0.30
1114.0   1116.0 B   10.2  276.    0.2  164. 188.  7.1  0.0 -0.50  0.60
```

```
INTERVAL          GRADE ANGLE  AZ.   ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3


1116.0   1118.0 B    5.8  281.    0.2  146. 179.  7.1  0.0 -0.40  0.20
1118.0   1120.0 A    9.3  302.    0.2  140. 176.  7.1  0.0 -0.90 -0.10
1120.0   1122.0 B    8.9  334.    0.2  127. 167.  7.1  0.0 -0.90 -0.70
1122.0   1124.0 A    7.2  326.    0.2  118. 155.  7.1  0.0 -0.70 -0.60
1124.0   1126.0 A    5.8  294.    0.2  112. 145.  7.1  0.0 -0.60 -0.30
1126.0   1128.0 A    8.5  339.    0.2  103. 134.  7.1  0.0 -0.50 -0.90
1128.0   1130.0 A   15.6  334.    0.2   95. 123.  7.1  0.0 -0.80 -1.70
1130.0   1132.0 C   11.9  291.    0.2   86. 112.  7.1  0.0 -1.10 -1.10
1132.0   1134.0 B    7.8  325.    0.2   77. 101.  7.1  0.0 -0.20 -0.80
1134.0   1136.0 A    9.4  308.    0.2   64.  87.  7.2  0.0 -0.30 -1.00
1136.0   1138.0 C    7.5  187.    0.2   45.  67.  7.2  0.0 -0.70  0.0
1141.0   1143.5 C   22.7  129.    0.3   35.  49.  7.3  0.0 -0.90  1.70
1158.5   1160.0 C   17.7  277.    0.3   46.  38.  7.2  0.0  0.0  -1.70
1160.0   1162.0 B   14.9  270.    0.3   53.  38.  7.2  0.0 -0.20 -1.50
1162.0   1164.0 B   17.7  274.    0.2   64.  41.  7.2  0.0 -0.20 -1.80
1166.0   1168.0 C   18.4  284.    0.2   80.  45.  7.3  0.0  0.0  -1.80
1168.0   1170.0 C   19.6  184.    0.2   86.  46.  7.3  0.0 -2.20 -0.70
1175.0   1175.5 C   14.6  270.    0.2  108.  64.  7.2  0.0 -0.90 -1.60
1178.0   1179.5 B    4.3   86.    0.3  101.  64.  7.2  0.0  0.30  0.50
1180.0   1181.5 B    5.3  172.    0.3   85.  49.  7.2  0.0 -0.50  0.0
1184.0   1186.5 C   23.9  160.    0.3   44.   6.  7.1  0.0 -2.70 -1.50
1186.5   1189.5 C   19.1  183.    0.4   27. 349.  7.1  0.0 -1.50 -2.00
1189.5   1192.0 C   20.9  181.    0.4   21. 330.  7.1  0.0 -1.10 -2.30
1194.0   1196.0 C   17.0  169.    0.4    9. 330.  7.1  0.0 -1.20 -1.80
```

```
1196.0   1198.0 C   16.4  190.    0.5    4. 327.  7.1  0.0 -0.50 -1.70
1198.0   1201.0 C   15.0  184.    0.5  352. 316.  7.1  0.0 -0.30 -1.80
1201.0   1203.0 C   16.1  178.    0.6  349. 309.  7.1  0.0 -0.30 -1.60
1203.0   1206.0 B   17.0  181.    0.6  347. 312.  7.1  0.0 -0.30 -1.70
1206.0   1208.0 B   16.1  169.    0.6  341. 300.  7.1  0.0 -0.30 -1.60
1208.0   1210.0 B   14.8  154.    0.6  334. 289.  7.1  0.0 -0.40 -1.50
1210.0   1214.0 B   13.4  146.    0.6  332. 274.  7.1  0.0 -0.20 -1.30
1214.0   1216.0 B    7.6  132.    0.6  328. 259.  7.1  0.0 -0.10 -0.70
1216.0   1218.0 C   13.1  142.    0.6  328. 250.  7.1  0.0  0.30 -1.00
1218.0   1220.0 A   12.3  335.    0.6  326. 240.  7.1  0.0 -0.80  0.60
1220.0   1222.0 B    7.7  322.    0.6  323. 229.  7.1  0.0 -0.50  0.40
1222.0   1224.0 B    6.5  349.    0.6  319. 219.  7.1  0.0 -0.70 -0.10
1224.0   1226.0 C    8.8  355.    0.6  314. 210.  7.1  0.0 -1.00 -0.40
1226.0   1228.0 B    8.8  347.    0.6  311. 202.  7.1  0.0 -1.00 -0.40
1228.0   1230.0 B    8.2  327.    0.6  309. 194.  7.1  0.0 -0.90 -0.20
1230.0   1234.0 B   12.5  342.    0.6  306. 182.  7.1  0.0 -1.40 -0.90
1234.0   1236.0 B    9.2   17.    0.6  300. 171.  7.1  0.0 -0.60 -1.00
1236.0   1238.0 B    9.1   19.    0.6  298. 166.  7.1  0.0 -0.50 -1.00
1238.0   1240.0 B    9.2    3.    0.6  300. 163.  7.1  0.0 -0.70 -1.00
1240.0   1242.0 C   13.5   15.    0.7  302. 161.  7.1  0.0 -0.70 -1.50
1242.0   1244.0 B    9.8  326.    0.7  303. 160.  7.1  0.0 -1.10 -0.80
1244.0   1246.0 B    9.9    4.    0.7  305. 160.  7.1  0.0 -0.70 -1.10
1246.0   1248.0 B   15.4   21.    0.7  308. 159.  7.1  0.0 -0.60 -1.70
1248.0   1250.0 B   13.5   18.    0.7  308. 159.  7.1  0.0 -0.60 -1.80
1250.0   1252.0 A   14.4   27.    0.7  306. 156.  7.1  0.0 -0.30 -1.50
1252.0   1254.0 A   16.1    9.    0.7  304. 150.  7.1  0.0 -0.70 -1.80
1254.0   1256.0 B   16.3    5.    0.7  298. 142.  7.1  0.0 -0.60 -1.80
1256.0   1258.0 B   17.5  358.    0.7  291. 131.  7.1  0.0 -0.50 -1.90
1258.0   1260.0 B   12.3  352.    0.6  284. 123.  7.1  0.0 -0.30 -1.30
1260.0   1262.0 B   14.3  351.    0.6  280. 120.  7.1  0.0 -0.30 -1.50
1262.0   1264.0 C   23.4  336.    0.6  283. 124.  7.1  0.0 -1.30 -2.70
```

```
 INTERVAL        GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3


 1264.0   1266.0 A   20.5  349.    0.6  289. 128.  7.1  0.0 -0.80 -2.30
 1266.0   1268.0 B   20.3  345.    0.6  293. 127.  7.1  0.0 -0.90 -2.30
 1268.0   1270.0 B   13.7  321.    0.5  301. 126.  7.1  0.0 -1.10 -1.50
 1270.0   1272.0 B   11.7  338.    0.4  310. 120.  7.1  0.0 -0.50 -1.30
 1272.0   1274.0 B    8.8  317.    0.4  316. 107.  7.1  0.0 -0.50 -1.00
 1274.0   1276.0 B   13.3  332.    0.4  320.  92.  7.1  0.0  0.0  -1.30
 1276.0   1278.0 C   16.1  352.    0.4  325.  75.  7.1  0.0  1.10 -0.70
 1278.0   1280.0 B   11.5  332.    0.4  331.  60.  7.1  0.0  0.70 -0.60
 1280.0   1282.0 A    8.2  333.    0.5  329.  45.  7.1  0.0  0.70 -0.20
 1282.0   1284.0 B    8.9    1.    0.5  333.  30.  7.0  0.0  1.00  0.50
 1284.0   1286.0 A    7.7   18.    0.6  338.  22.  7.0  0.0  0.80  0.70
 1286.0   1288.0 A    6.0    4.    0.6  333.   2.  7.0  0.0  0.60  0.60
 1288.0   1290.0 A    6.6  355.    0.6  331. 346.  7.0  0.0  0.60  0.70
 1290.0   1292.0 B    4.2  357.    0.6  327. 330.  7.1  0.0  0.30  0.50
 1292.0   1294.5 C    8.3   32.    0.7  318. 309.  7.1  0.0 -0.30  0.60
```

```
1294.5  1296.5 C    1.4  246.    0.7  310. 296.  7.1  0.0  0.20  0.10
1296.5  1298.3 C   10.1  349.    0.7  308. 287.  7.1  0.0  0.0   1.00
1298.3  1300.3 B    1.2  315.    0.7  312. 284.  7.1  0.0  0.10  0.20
1300.3  1302.5 A    4.2  179.    0.8  314. 278.  7.1  0.0  0.20 -0.20
1302.5  1304.5 B    3.4  174.    0.8  312. 265.  7.1  0.0  0.20 -0.10
1304.5  1306.5 A    2.8  211.    0.8  307. 247.  7.1  0.0  0.30  0.20
1306.5  1308.0 C    2.9  111.    0.8  301. 228.  7.1  0.0  0.0  -0.20
1308.0  1310.0 B    1.6  343.    0.8  288. 206.  7.0  0.0 -0.20  0.0
1310.0  1312.5 C   11.4  308.    0.8  282. 196.  6.9  0.0 -1.00  0.20
1312.5  1314.0 C    2.5  224.    0.8  290. 198.  7.0  0.0  0.10  0.30
1314.5  1316.0 B    3.9  267.    0.8  291. 188.  7.1  0.0 -0.20  0.30
1316.0  1318.0 C    2.1  268.    0.8  280. 171.  7.1  0.0 -0.20  0.10
1318.0  1320.0 C    3.5  282.    0.8  268. 160.  7.1  0.0 -0.40  0.0
1320.3  1322.5 C    5.7  254.    0.8  265. 161.  7.1  0.0 -0.40  0.30
1322.5  1324.3 B    3.2  227.    0.8  258. 161.  7.1  0.0 -0.10  0.30
1324.3  1326.3 A    4.9    3.    0.8  270. 163.  7.1  0.0 -0.40 -0.50
1326.3  1328.0 C    6.2  330.    0.8  273. 161.  7.1  0.0 -0.70 -0.50
1330.0  1332.0 B   14.4   21.    0.8  272. 153.  7.1  0.0 -0.40 -1.50
1332.0  1334.0 B    9.6   15.    0.8  272. 148.  7.1  0.0 -0.30 -1.00
1334.0  1336.0 B   11.1    0.    0.8  269. 141.  7.1  0.0 -0.50 -1.20
1336.0  1338.0 A   13.0  357.    0.8  264. 135.  7.1  0.0 -0.50 -1.40
1338.0  1340.0 B   11.6    7.    0.8  266. 138.  7.1  0.0 -0.30 -1.20
1340.0  1342.0 B   13.6    8.    0.8  266. 137.  7.1  0.0 -0.30 -1.40
1342.0  1344.0 B   13.5   23.    0.7  253. 125.  7.2  0.0  0.40 -1.00
1345.0  1346.0 C   10.1  329.    0.7  254. 130.  7.2  0.0 -0.80 -1.10
1348.0  1350.0 B    8.6    2.    0.7  262. 137.  7.1  0.0 -0.30 -0.90
1350.0  1352.0 C   10.0  347.    0.7  265. 137.  7.1  0.0 -0.60 -1.10
1352.5  1354.0 C   10.5    6.    0.7  263. 138.  7.2  0.0 -0.30 -1.10
1354.0  1356.0 C   12.5    8.    0.7  262. 138.  7.2  0.0 -0.30 -1.30
1356.0  1358.0 C   10.1  343.    0.7  263. 139.  7.1  0.0 -0.70 -1.10
1358.0  1360.0 B   12.8  352.    0.7  263. 139.  7.1  0.0 -0.70 -1.40
1360.0  1362.0 B   12.0  355.    0.8  261. 139.  7.1  0.0 -0.60 -1.30
1362.0  1364.0 B   13.4   10.    0.8  262. 143.  7.1  0.0 -0.40 -1.40
1364.0  1366.0 B   14.6  355.    0.8  263. 147.  7.1  0.0 -0.90 -1.60
1366.0  1368.0 B    5.9   37.    0.8  264. 151.  7.1  0.0  0.0  -0.50
1368.0  1370.0 B    4.8   43.    0.8  270. 156.  7.1  0.0  0.0  -0.40
1370.0  1372.0 B   12.1   54.    0.8  277. 158.  7.1  0.0  0.30 -0.90
1372.0  1374.0 C    3.6  109.    0.8  278. 153.  7.1  0.0  0.30  0.10
1374.0  1376.0 C    6.5  104.    0.8  276. 147.  7.1  0.0  0.60  0.20
1377.0  1378.3 C    4.6  341.    0.8  273. 142.  7.1  0.0 -0.40 -0.50




CORRELATION  CORR. DIP    DIP  DRFT  DRFT AZ.   DIA  DISPLACEMENTS
INTERVAL     GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3
```

```
1380.6   1382.5 C    5.0  317.    0.8  276. 151.  7.2  0.0 -0.60 -0.40
1382.5   1384.5 C   10.1   13.    0.8  279. 156.  7.2  0.0 -0.50 -1.10
1384.5   1386.0 B   12.1   48.    0.8  280. 157.  7.2  0.0  0.20 -1.00
1386.5   1388.0 C   13.8   50.    0.8  279. 156.  7.2  0.0  0.30 -1.10
1388.0   1390.0 B   14.4   34.    0.8  277. 155.  7.2  0.0 -0.10 -1.40
1394.5   1396.0 C    6.8  294.    0.8  280. 159.  7.2  0.0 -0.80 -0.20
1396.0   1398.0 B   15.8  270.    0.8  281. 157.  7.2  0.0 -1.50  0.20
1398.0   1400.0 A   11.7  271.    0.8  281. 152.  7.2  0.0 -1.20  0.0
1400.0   1402.0 A   10.7  350.    0.8  279. 147.  7.3  0.0 -0.80 -1.20
1402.0   1404.0 B    6.4  342.    0.8  282. 149.  7.3  0.0 -0.60 -0.70
1404.0   1406.0 A    7.2  331.    0.8  289. 154.  7.3  0.0 -0.80 -0.70
1406.0   1408.0 B    2.1  324.    0.8  293. 155.  7.3  0.0 -0.30 -0.20
1408.0   1410.0 B   15.8    2.    0.8  294. 154.  7.2  0.0 -1.00 -1.80
1410.0   1412.0 B    9.1  323.    0.8  294. 152.  7.1  0.0 -1.00 -0.80
1412.0   1414.0 B   10.4  295.    0.8  293. 151.  7.0  0.0 -1.20 -0.50
1414.0   1416.0 B    9.1  280.    0.8  293. 151.  7.0  0.0 -1.00 -0.20
1416.0   1418.0 B    9.1  286.    0.8  297. 156.  7.0  0.0 -1.00 -0.20
1418.0   1420.0 B    9.0  277.    0.8  300. 159.  7.0  0.0 -0.90  0.0
1420.0   1422.0 B    8.5  281.    0.8  297. 157.  7.0  0.0 -0.90 -0.10
1422.0   1424.0 A    7.0  251.    0.8  294. 157.  7.0  0.0 -0.50  0.30
1424.0   1426.0 B    6.1  241.    0.8  295. 162.  7.0  0.0 -0.30  0.40
1426.0   1428.0 B    5.1  268.    0.8  299. 172.  6.9  0.0 -0.40  0.20
1428.0   1430.0 B    9.5  214.    0.8  306. 183.  6.9  0.0  0.40  1.00
1430.0   1432.0 B    6.5  164.    0.8  311. 188.  6.9  0.0  0.60  0.40
1436.0   1438.0 C   13.9  191.    0.8  322. 178.  7.0  0.0  1.00  1.40
1438.7   1440.0 B   19.0  224.    0.8  321. 158.  6.9  0.0 -0.30  1.60
1441.0   1442.5 C    6.7  226.    0.7  322. 138.  6.9  0.0 -0.40  0.30
1444.0   1446.0 B   13.3  254.    0.7  320. 121.  6.9  0.0 -1.40 -0.40
1446.0   1448.0 B   11.8  268.    0.6  315. 113.  7.0  0.0 -1.30 -0.80
1448.0   1450.0 B   11.9  269.    0.6  311. 109.  7.0  0.0 -1.30 -0.90
1450.0   1452.0 B   10.7  291.    0.7  308. 108.  7.0  0.0 -1.00 -1.10
1454.0   1456.0 A   14.0  283.    0.7  315. 109.  6.9  0.0 -1.40 -1.30
1456.0   1458.0 A   12.5  233.    0.8  321. 100.  6.9  0.0 -1.30 -0.40
1458.0   1460.0 A   10.3  237.    0.8  323.  89.  6.9  0.0 -1.10 -0.60
1460.0   1462.0 A   12.3  223.    0.7  325.  84.  7.0  0.0 -1.30 -0.50
1462.0   1464.0 B   16.6  209.    0.7  326.  79.  7.0  0.0 -1.70 -0.40
1464.0   1466.0 A   12.5  230.    0.7  328.  71.  7.0  0.0 -1.30 -0.90
1466.0   1468.0 C    9.7  215.    0.7  333.  69.  7.0  0.0 -1.00 -0.50
1468.0   1470.0 B   12.4  250.    0.7  340.  69.  7.0  0.0 -1.10 -1.20
1470.0   1472.0 B   14.7  262.    0.8  338.  64.  7.0  0.0 -1.00 -1.60
1472.0   1474.0 B   12.6  247.    0.8  332.  58.  7.0  0.0 -1.00 -1.30
1474.0   1476.0 B   12.7  272.    0.8  327.  56.  7.0  0.0 -0.50 -1.40
1476.0   1478.0 A    9.8  258.    0.8  325.  56.  7.1  0.0 -0.60 -1.10
1478.0   1480.0 B   15.3  264.    0.8  329.  59.  7.0  0.0 -0.90 -1.70
1480.0   1482.0 B   12.6  269.    0.8  330.  63.  7.0  0.0 -0.70 -1.40
1482.0   1484.0 B    8.9  275.    0.8  328.  63.  7.0  0.0 -0.40 -1.00
1484.0   1486.0 B    9.0  265.    0.8  331.  60.  7.0  0.0 -0.50 -1.00
1486.0   1488.0 A   11.0  268.    0.7  339.  56.  7.0  0.0 -0.50 -1.20
1488.0   1490.0 A   13.7  284.    0.7  343.  54.  7.0  0.0 -0.20 -1.40
1490.0   1492.0 C   14.7  283.    0.7  346.  53.  7.0  0.0 -0.20 -1.50
1492.0   1494.0 B   12.2  268.    0.7  343.  49.  7.0  0.0 -0.40 -1.30
1494.0   1496.0 B    9.3  267.    0.7  343.  49.  7.1  0.0 -0.30 -1.00
1496.0   1498.0 B   11.0  258.    0.7  346.  52.  7.1  0.0 -0.60 -1.20
1498.0   1500.0 A    8.6  247.    0.7  350.  53.  7.1  0.0 -0.60 -0.90
1500.0   1502.0 B   13.5  248.    0.7  352.  55.  7.0  0.0 -1.00 -1.40
```

CORRELATION INTERVAL		CORR. GRADE	DIP ANGLE	DIP AZ.	DRFT ANGLE	DRFT AZ.	AZ. NO.1	DIA 13	DISPLACEMENTS NO.1	NO.2	NO.3
1502.0	1504.0	B	7.7	252.	0.7	350.	56.	7.0	0.0	-0.50	-0.80
1504.0	1506.0	A	8.4	276.	0.7	350.	60.	7.0	0.0	-0.30	-0.90
1506.0	1508.0	B	7.9	254.	0.7	352.	66.	7.0	0.0	-0.60	-0.80
1508.0	1510.0	B	10.5	263.	0.8	352.	67.	6.9	0.0	-0.70	-1.10
1510.0	1512.0	C	6.3	208.	0.8	344.	64.	6.9	0.0	-0.60	-0.30
1514.0	1515.0	C	12.8	253.	0.8	353.	77.	7.1	0.0	-1.20	-1.20
1516.0	1516.5	B	3.3	228.	0.8	356.	80.	7.0	0.0	-0.30	-0.20
1522.0	1523.5	B	19.8	282.	0.8	358.	81.	7.0	0.0	-1.30	-2.20
1528.0	1530.0	B	8.8	263.	0.8	355.	108.	6.8	0.0	-0.90	-0.60
1532.0	1534.5	B	7.9	251.	0.8	6.	107.	6.9	0.0	-0.80	-0.40
1534.5	1536.5	C	10.3	269.	0.8	3.	99.	7.0	0.0	-1.00	-0.90
1542.3	1543.5	C	7.6	221.	0.9	8.	89.	6.9	0.0	-0.70	-0.20
1546.0	1548.0	C	4.7	255.	0.9	2.	87.	6.8	0.0	-0.40	-0.40
1550.0	1552.0	A	6.7	223.	0.9	21.	66.	6.8	0.0	-0.60	-0.40
1552.0	1554.0	A	8.4	245.	0.9	21.	40.	6.8	0.0	-0.40	-0.80
1554.0	1556.0	B	8.7	246.	0.9	21.	25.	6.8	0.0	-0.20	-0.80
1556.0	1558.0	B	9.5	231.	0.9	21.	21.	6.8	0.0	-0.40	-0.90
1558.5	1560.0	C	14.4	242.	0.9	21.	21.	6.8	0.0	-0.40	-1.40
1564.0	1566.0	C	19.1	170.	1.1	21.	21.	6.7	0.0	-1.90	-0.90
1569.0	1570.0	D	11.5	250.	1.2	21.	10.	6.7	0.0	0.10	-0.90
1572.0	1574.0	B	7.4	179.	1.2	21.	347.	6.7	0.0	-0.50	-0.60
1574.0	1576.0	C	5.2	127.	1.3	21.	330.	6.7	0.0	-0.50	-0.20
1576.0	1576.5	B	7.6	183.	1.3	4.	312.	6.7	0.0	-0.10	-0.60
1578.5	1580.0	B	8.1	188.	1.3	5.	309.	6.7	0.0	0.0	-0.60
1580.0	1582.0	C	3.1	226.	1.3	6.	308.	6.7	0.0	0.20	0.0
1582.0	1584.0	B	9.0	208.	1.2	7.	302.	6.7	0.0	0.40	-0.40
1584.0	1586.0	B	5.7	178.	1.2	7.	296.	6.7	0.0	0.0	-0.40
1586.0	1588.0	B	6.6	84.	1.2	4.	289.	6.7	0.0	-0.70	-0.30
1588.0	1590.0	C	3.3	215.	1.2	6.	290.	6.7	0.0	0.20	0.0
1590.0	1592.0	B	2.0	116.	1.2	9.	291.	6.7	0.0	-0.20	-0.10
1592.0	1594.0	B	6.1	201.	1.2	10.	288.	6.7	0.0	0.30	-0.20
1596.0	1598.0	A	1.7	111.	1.3	11.	281.	6.7	0.0	-0.20	-0.10
1598.0	1600.0	C	1.6	108.	1.3	12.	277.	6.8	0.0	-0.20	-0.10
1600.0	1602.0	B	6.2	28.	1.2	11.	273.	6.8	0.0	-0.60	0.10
1602.0	1604.0	A	5.7	32.	1.2	10.	269.	6.7	0.0	-0.60	0.0
1605.5	1606.0	B	1.1	240.	1.2	4.	245.	6.9	0.0	0.0	0.10
1612.0	1614.3	C	0.7	122.	1.2	8.	285.	6.8	0.0	-0.10	0.0
1616.0	1617.5	B	4.3	187.	1.3	8.	288.	6.8	0.0	0.10	-0.20
1618.5	1620.5	B	2.8	271.	1.3	6.	278.	6.8	0.0	0.20	0.30
1620.5	1622.0	B	3.6	235.	1.3	4.	275.	6.8	0.0	0.30	0.20
1622.0	1624.0	B	2.3	169.	1.3	3.	273.	6.8	0.0	0.0	-0.10
1624.0	1626.0	B	0.7	241.	1.3	2.	270.	6.8	0.0	0.0	0.10
1626.0	1628.0	C	1.4	296.	1.3	4.	269.	6.8	0.0	0.0	0.20
1628.3	1630.0	C	4.3	184.	1.3	2.	265.	6.8	0.0	0.20	-0.10
1630.5	1632.5	C	3.4	126.	1.3	5.	265.	6.8	0.0	-0.20	-0.30
1632.5	1634.5	B	7.3	124.	1.3	7.	260.	6.8	0.0	-0.30	-0.70
1634.5	1636.0	B	1.0	30.	1.3	7.	257.	6.8	0.0	-0.20	0.0
1637.0	1637.9	C	3.2	152.	1.3	6.	254.	6.9	0.0	0.0	-0.20
1639.0	1640.5	B	5.0	113.	1.3	6.	255.	6.9	0.0	-0.30	-0.50
1640.5	1642.0	B	3.4	79.	1.3	6.	255.	6.9	0.0	-0.40	-0.30
1642.0	1644.0	C	0.9	307.	1.3	6.	252.	6.8	0.0	-0.10	0.10
1644.0	1646.0	B	0.2	174.	1.3	3.	246.	6.8	0.0	-0.10	0.0
1646.0	1648.5	B	1.9	46.	1.3	360.	249.	6.8	0.0	-0.30	-0.10
1656.0	1658.0	B	6.3	206.	1.2	8.	260.	6.8	0.0	0.50	0.10
1658.9	1659.0	B	3.0	168.	1.2	5.	249.	6.9	0.0	0.10	-0.10

```
CORRELATION   CORR. DIP     DIP  DRFT  DRFT AZ.   DIA  DISPLACEMENTS
INTERVAL      GRADE ANGLE   AZ.  ANGLE AZ.  NO.1  13   NO.1 NO.2 NO.3


1662.0   1662.3 C     3.0   312.     1.2   351. 217.   6.9   0.0 -0.30  0.10
1671.0   1672.0 B     5.2   286.     1.1     9. 238.   7.0   0.0  0.0   0.50
1673.7   1674.0 C     3.6   143.     1.1     8. 229.   6.9   0.0  0.10 -0.20
1676.0   1677.0 B     9.8   268.     1.1     5. 232.   6.9   0.0  0.30  1.00
1679.8   1680.0 B     7.0   253.     1.1     5. 228.   6.9   0.0  0.30  0.70
1681.6   1682.0 B     9.9   270.     1.1     5. 228.   7.0   0.0  0.20  1.00
1683.8   1684.0 B     5.1   244.     1.0     5. 232.   7.1   0.0  0.30  0.50
1689.8   1690.0 C     6.5   156.     1.2     3. 211.   7.0   0.0  0.50  0.0
1693.7   1694.0 C     9.0   307.     1.2   355. 242.   7.0   0.0 -0.20  0.80
1700.0   1700.5 C     6.0   268.     1.2   356. 229.   6.9   0.0  0.10  0.60
1702.0   1703.0 C    12.9   106.     1.2   359. 226.   6.9   0.0 -0.10 -1.20
1707.6   1708.0 B     6.1   167.     1.2     3. 200.   6.7   0.0  0.50  0.20
1713.0   1714.0 C     5.8   111.     1.0    21. 181.   6.8   0.0  0.40 -0.20
1717.7   1718.0 C     8.7   324.     0.8    21. 136.   6.8   0.0 -0.70 -0.90
1720.0   1720.4 C    15.4    53.     0.8    21. 122.   6.8   0.0  1.30 -0.30
1725.6   1726.0 B    19.2   269.     0.8    21.  94.   6.8   0.0 -1.80 -1.70
1728.5   1728.7 B    11.8   281.     0.8    21.  86.   6.8   0.0 -0.80 -1.20
1730.3   1730.4 B     3.3   263.     0.8    21.  78.   6.8   0.0 -0.20 -0.30
1735.0   1735.3 B     7.7   281.     0.8    21.  86.   7.0   0.0 -0.50 -0.80
1737.8   1738.0 B    14.2   254.     0.9    31.  93.   6.9   0.0 -1.40 -1.00
1741.0   1742.0 C     3.6    21.     1.1    21.  58.   7.1   0.0  0.50  0.20
1746.0   1746.3 B     8.2   256.     1.1    21.  61.   7.0   0.0 -0.50 -0.80
1749.6   1750.0 B     5.3   270.     1.1    21.  53.   7.0   0.0 -0.10 -0.50
1751.0   1752.0 B     3.6   238.     1.1    21.  53.   7.1   0.0 -0.20 -0.30
1753.7   1754.0 B     2.9   205.     1.1     4.  68.   7.0   0.0 -0.20 -0.10
1755.0   1755.3 B     8.6   252.     1.1     2.  73.   6.9   0.0 -0.70 -0.80
1761.3   1761.5 C    16.4   338.     1.1   348. 105.   6.8   0.0 -0.20 -1.70
1765.6   1766.0 B     5.7   262.     1.1    21. 142.   6.6   0.0 -0.50 -0.10
1769.0   1769.3 B     1.3   259.     1.0    23. 129.   6.9   0.0 -0.10 -0.10
1771.0   1771.3 B     4.4    92.     0.9    21. 106.   7.0   0.0  0.50  0.30
1773.8   1774.0 B    12.5    19.     0.9    23. 105.   6.8   0.0  0.80 -0.60
1777.0   1778.0 C     4.0   254.     1.1    21.  89.   6.7   0.0 -0.30 -0.30
1787.6   1787.7 C    20.9   138.     1.1    21. 123.   6.8   0.0  1.60  2.10
1796.6   1796.7 C    15.9   188.     1.1    21. 131.   6.8   0.0  0.10  1.40
1803.0   1804.0 C    10.1   231.     1.2    21. 127.   6.8   0.0 -0.70  0.20
1809.6   1810.0 C     7.0   339.     1.2    21. 127.   6.7   0.0 -0.30 -0.80
1813.1   1813.3 B     5.5    27.     1.2    21. 121.   6.9   0.0  0.30 -0.40
1814.5   1815.0 A     8.3     9.     1.1    21. 125.   6.9   0.0  0.10 -0.80
1819.6   1820.0 B     7.2    13.     1.1    21. 141.   6.9   0.0 -0.10 -0.80
1824.3   1825.0 B     2.2   197.     1.1    21. 133.   6.9   0.0  0.0   0.10
1830.0   1830.3 C     5.7   342.     1.2    21. 134.   6.9   0.0 -0.30 -0.70
1835.6   1836.0 C     4.5   256.     1.2    21. 137.   6.9   0.0 -0.40 -0.10
1842.4   1843.0 B    10.4   341.     1.3    21. 141.   6.9   0.0 -0.70 -1.20
1846.0   1846.3 B    14.3   284.     1.3    21. 146.   6.9   0.0 -1.50 -0.60
1849.0   1849.3 B     6.2    83.     1.3    21. 150.   6.9   0.0  0.50 -0.20
1868.0   1868.3 C    19.4   287.     1.4    24.  21.   6.6   0.0  1.00 -1.00
1873.0   1874.0 C    26.1   296.     1.4    50.  21.   6.6   0.0  1.70 -1.00
1879.0   1880.0 C    12.5   146.     1.4    31. 325.   6.6   0.0 -1.10 -1.00
1890.2   1890.5 C    23.1   199.     1.4    29. 319.   6.7   0.0  0.0  -2.00
1893.0   1893.3 C    21.1   196.     1.3    23. 311.   6.7   0.0  0.20 -1.70
1896.0   1896.3 B    33.1   191.     1.4    28. 306.   6.6   0.0  0.30 -2.90
1899.0   1899.3 A    23.1   190.     1.4    21. 310.   6.7   0.0  0.0  -2.00
1903.0   1904.0 C    30.1   237.     1.4    27. 327.   6.7   0.0  1.70 -1.50
1906.0   1906.4 D    44.8   232.     1.4    25. 316.   6.6   0.0  3.30 -2.10
1908.0   1908.4 C    45.8   220.     1.4    24. 313.   6.7   0.0  2.70 -3.00
```

```
CORRELATION  CORR. DIP    DIP  DRFT  DRFT AZ.   DIA  DISPLACEMENTS
INTERVAL     GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3


1910.0   1910.7 C   44.4  221.    1.4    22. 310.  6.8  0.0  2.90 =2.60
1913.0   1914.0 C   42.1  232.    1.4    21. 307.  6.8  0.0  3.70 =1.20
1917.0   1918.0 C   10.0   84.    1.4    25. 313.  6.7  0.0 =1.00 =0.10
1918.0   1918.3 C   49.7  219.    1.4    25. 314.  6.7  0.0  2.80 =3.70
1923.0   1924.0 D   46.5  227.    1.4    21. 311.  6.7  0.0  3.40 =2.20
1926.0   1927.0 C   47.3  228.    1.4    24. 316.  6.7  0.0  3.30 =2.70
1928.0   1929.0 B   48.8  224.    1.4    28. 311.  6.7  0.0  3.50 =2.80
1933.0   1934.0 C   57.5  176.    1.4    22. 269.  6.5  0.0  3.80 =4.60
1939.0   1940.0 C   44.5  143.    1.4    21. 253.  6.7  0.0  0.90 =4.30
1951.0   1952.0 D   51.2  136.    1.4    21. 238.  6.5  0.0  2.10 =4.60
1959.0   1960.0 B   38.8  222.    1.4    23. 227.  6.7  0.0  4.00  3.70
1965.0   1966.0 B   40.8  207.    1.4    21. 194.  6.6  0.0  3.40  4.50
1966.0   1967.0 B   42.4  208.    1.4    21. 193.  6.6  0.0  3.50  4.80
1973.0   1974.0 C   37.3  192.    1.4    21. 215.  6.6  0.0  4.10  2.50
1977.0   1977.3 B   23.5  159.    1.4    23. 220.  6.6  0.0  2.00 =0.10
1981.6   1982.0 B   26.0   42.    1.4    21. 190.  6.5  0.0 =1.40 =2.90
1987.6   1988.0 B   27.6    8.    1.4    24. 165.  6.5  0.0 =1.80 =3.10
1992.0   1993.0 C   25.4   29.    1.4    21. 149.  6.6  0.0  0.0  =2.50
1996.0   1997.0 B   25.5  183.    1.3    21. 162.  6.5  0.0  1.60  2.50
2000.0   2001.0 C    9.4   45.    1.3    23. 152.  6.5  0.0  0.20 =0.80
2008.3   2009.0 C   13.5  308.    1.3    22. 142.  6.5  0.0 =1.30 =1.10
2013.0   2014.0 C   36.4  313.    1.3    21. 138.  6.4  0.0 =3.70 =3.50
2017.0   2018.0 C   11.8  252.    1.3    21. 133.  6.8  0.0 =1.00 =0.10
2020.0   2020.3 B    8.6   95.    1.3    23. 129.  6.6  0.0  0.90  0.30
2024.0   2024.5 B   10.0   71.    1.3    21. 105.  6.7  0.0  1.10  0.40
2028.0   2028.3 C    6.6  327.    1.3    21. 103.  6.7  0.0 =0.10 =0.70
2052.0   2053.0 A   39.1  198.    1.3    21. 111.  6.7  0.0 =2.10  2.40
2059.2   2059.3 B   55.9  230.    1.3    21. 121.  6.7  0.0 =6.30  1.40
2063.0   2063.3 B   38.7  251.    1.3    21. 106.  6.7  0.0 =4.50 =2.00
2068.0   2069.0 C   18.8  312.    1.3    51. 136.  6.7  0.0 =1.70 =1.70
2074.0   2074.6 C   20.3  306.    1.3    51. 113.  6.5  0.0 =1.40 =2.00
2079.6   2080.0 B   25.0  313.    1.3    51. 101.  6.5  0.0 =1.10 =2.60
2093.0   2093.3 C   25.1  294.    1.3    61. 121.  6.5  0.0 =2.30 =2.10
2100.0   2100.4 C   26.3  289.    1.3    51. 141.  6.5  0.0 =2.70 =1.40
2104.0   2105.0 D   18.4  303.    1.4    61. 148.  6.2  0.0 =1.70 =1.10
2109.6   2109.7 C   27.9  285.    1.4    61. 146.  6.2  0.0 =2.70 =1.00
2111.0   2111.3 C   40.2  295.    1.4    61. 141.  6.5  0.0 =4.60 =2.70
2115.0   2116.0 B   33.0  324.    1.4    61. 156.  6.5  0.0 =3.40 =2.80
2122.0   2123.0 C   29.6  298.    1.4    61. 161.  6.8  0.0 =3.20 =1.10
2126.0   2127.0 B    6.9  342.    1.4    61. 166.  6.8  0.0 =0.60 =0.70
2127.0   2128.0 B   28.2  312.    1.4    61. 166.  6.8  0.0 =3.10 =1.50
2129.6   2130.0 B   20.9  318.    1.4    61. 166.  6.8  0.0 =2.20 =1.30
2131.0   2132.0 B    8.0   99.    1.4    61. 166.  6.8  0.0  0.70 =0.20
2133.0   2134.0 B   34.1  346.    1.4    61. 166.  6.8  0.0 =3.40 =3.60
2134.0   2135.0 A   37.8   24.    1.4    61. 166.  6.8  0.0 =1.70 =4.70
2137.0   2138.0 A   30.9   44.    1.4    61. 171.  6.8  0.0 =0.40 =3.40
2141.0   2142.0 B   30.6   14.    1.4    61. 161.  6.8  0.0 =1.50 =3.60
2143.0   2144.0 A   26.7    2.    1.4    61. 166.  6.8  0.0 =2.00 =3.00
2144.0   2145.0 B   26.0    0.    1.4    61. 171.  6.8  0.0 =2.10 =2.70
2148.0   2149.0 C   29.2   26.    1.4    61. 156.  6.8  0.0 =0.50 =3.20
2151.0   2152.0 C   24.8    5.    1.5    71. 156.  6.8  0.0 =1.30 =2.80
2154.0   2155.0 C   33.2  334.    1.5    71. 151.  6.8  0.0 =3.10 =3.50
2159.6   2160.0 C   27.1  352.    1.5    71. 156.  6.8  0.0 =2.00 =3.00
2163.0   2163.5 B   24.1  359.    1.5    71. 151.  6.8  0.0 =1.30 =2.70
2167.0   2168.0 B   20.0  359.    1.5    71. 178.  6.8  0.0 =1.80 =2.00
```

```
CORRELATION  CORR. DIP    DIP  DRFT  DRFT AZ.   DIA  DISPLACEMENTS
INTERVAL     GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3
```

```
2170.0  2171.0 B   31.0  335.     1.5    71. 181.   6.8  0.0 -3.50 -2.10
2172.0  2173.0 B   25.9  356.     1.6    81. 180.   6.8  0.0 -2.50 -2.50
2175.0  2175.3 B   34.6  359.     1.6    81. 178.   6.8  0.0 -3.40 -3.70
2177.0  2178.0 B   22.3    2.     1.4    81. 176.   6.8  0.0 -1.90 -2.30
2178.0  2178.3 B   17.2    2.     1.4    81. 181.   6.8  0.0 -1.80 -1.70
2180.0  2181.0 B   20.1    4.     1.4    81. 178.   6.9  0.0 -1.70 -2.10
2186.0  2187.0 C   19.6  299.     1.4    81. 171.   6.9  0.0 -1.90 -0.40
2190.0  2190.3 C   22.8   31.     1.4    81. 176.   6.9  0.0 -1.00 -2.60
2192.0  2193.0 C   20.8   12.     1.4    81. 176.   6.9  0.0 -1.50 -2.30
2195.0  2196.0 C   25.1  360.     1.4    81. 181.   6.9  0.0 -2.40 -2.50
2199.0  2200.0 C   15.2  312.     1.4    81. 178.   6.9  0.0 -1.50 -0.50
2206.0  2207.0 B   18.6  351.     1.3    96. 181.   6.9  0.0 -1.80 -1.60
2211.6  2211.7 B   20.1   18.     1.3    96. 181.   6.9  0.0 -1.40 -2.20
2213.0  2214.0 C   18.0  352.     1.3    96. 179.   6.9  0.0 -1.70 -1.60
2214.0  2215.0 B   16.4  355.     1.3    96. 180.   6.9  0.0 -1.50 -1.50
2216.9  2217.0 B    5.8  348.     1.3    96. 181.   6.9  0.0 -0.50 -0.50
2222.0  2222.3 C   19.8   19.     1.3   101. 181.   6.7  0.0 -1.30 -2.10
2227.0  2228.0 B   14.7  281.     1.3   101. 161.   6.7  0.0 -1.20  0.0
2234.3  2234.5 C   17.4  192.     1.3   101. 166.   6.7  0.0  1.10  1.80
2237.2  2237.3 C   16.4  355.     1.3   101. 176.   6.7  0.0 -1.40 -1.50
2241.0  2242.0 A   16.4   15.     1.3   101. 180.   6.7  0.0 -1.10 -1.70
2243.0  2244.0 B   17.7   12.     1.3   101. 181.   6.7  0.0 -1.30 -1.80
2245.0  2246.0 A   17.9    3.     1.3   101. 181.   6.7  0.0 -1.50 -1.70
2248.0  2249.0 B   23.0  355.     1.3   101. 178.   6.7  0.0 -2.10 -2.10
2253.0  2253.2 B   14.4   13.     1.3    96. 206.   6.7  0.0 -1.40 -1.20
2255.0  2256.0 B   13.1   41.     1.3    96. 226.   7.0  0.0 -1.30 -1.30
2258.0  2258.4 B   17.4   32.     1.3    96. 231.   7.0  0.0 -1.90 -1.40
2262.0  2263.0 B   15.9   90.     1.3    96. 271.   6.9  0.0 -1.60 -1.60
2265.0  2265.3 C   19.9   76.     1.3   104. 271.   6.9  0.0 -2.20 -1.70
2273.6  2273.7 C   10.8    9.     1.3   104. 241.   6.9  0.0 -1.10 -0.30
2279.0  2280.0 B   22.4   23.     1.3   104. 251.   6.3  0.0 -2.20 -0.60
2283.0  2284.0 B   37.0  359.     1.5   104. 236.   6.3  0.0 -3.70 -0.40
2285.0  2286.0 C   34.1   93.     1.5   104. 246.   6.3  0.0 -2.10 -3.90
2290.0  2291.0 C   19.2   13.     1.5   104. 226.   6.3  0.0 -1.90 -1.00
2293.0  2293.3 C   22.4  312.     1.5   104. 226.   6.3  0.0 -1.00  1.10
2296.0  2297.0 C   25.4  304.     1.9   104. 231.   6.3  0.0 -0.60  1.70
2302.0  2302.3 C    5.2   45.     1.9   104. 221.   6.3  0.0 -0.40 -0.60
2309.0  2310.0 B   21.0   19.     1.9   111. 236.   6.3  0.0 -2.10 -1.00
2312.0  2313.0 A    8.6  331.     1.9   111. 221.   6.3  0.0 -0.60  0.0
2314.0  2315.0 B   13.9   19.     1.9   111. 220.   6.3  0.0 -1.30 -1.00
2319.0  2320.0 B    6.7  359.     1.9   111. 226.   6.3  0.0 -0.60 -0.30
2326.0  2327.0 C    5.5  334.     1.9   111. 218.   6.3  0.0 -0.40 -0.10
2331.6  2332.0 B   26.9  335.     1.9   101. 208.   6.3  0.0 -2.50 -0.50
2333.0  2334.0 B    8.7  355.     1.9   101. 226.   6.3  0.0 -0.80 -0.30
2335.0  2336.0 B    9.5  351.     1.9   101. 236.   6.3  0.0 -0.80 -0.10
2337.0  2338.0 B    4.6  350.     1.9   101. 241.   6.3  0.0 -0.40 -0.10
2339.0  2340.0 B   10.8  350.     1.9   101. 246.   6.3  0.0 -0.80  0.10
2341.0  2342.0 B   12.9    7.     1.9   111. 251.   6.3  0.0 -1.10 -0.10
2344.0  2345.0 B   17.9  360.     1.9   111. 286.   6.3  0.0 -1.30  0.30
2347.0  2348.0 B   16.8  351.     1.9   111. 241.   6.3  0.0 -1.30  0.10
2349.0  2350.0 B   12.8   77.     1.9   111. 236.   6.3  0.0 -0.80 -1.40
2351.0  2352.0 B   22.9    9.     1.9   111. 246.   6.3  0.0 -2.10 -0.30
2355.0  2356.0 B    6.6  340.     1.9   111. 246.   6.3  0.0 -0.40  0.10
2357.0  2358.0 B   14.0  325.     1.9   111. 246.   6.3  0.0 -0.50  0.70
2360.0  2361.0 C   19.8   20.     1.9   111. 251.   6.3  0.0 -1.90 -0.50




CORRELATION   CORR. DIP    DIP  DRFT  DRFT AZ.   DIA  DISPLACEMENTS
INTERVAL      GRADE ANGLE  AZ.  ANGLE AZ.  NO.1  13  NO.1 NO.2 NO.3
```

```
2364.0   2365.0 B    9.4  337.     1.7  111. 256.   6.3  0.0 -0.40  0.40
2369.0   2370.0 B   13.1  326.     1.7  111. 256.   6.3  0.0 -0.30  0.80
2373.0   2373.5 D   21.4   58.     1.7  116. 260.   6.3  0.0 -2.20 -1.50
2379.8   2380.0 C   15.9   14.     1.7  116. 241.   6.3  0.0 -1.50 -0.50
2386.0   2386.0 B    7.0  297.     1.7  121. 260.   6.3  0.0  0.20  0.50
2386.0   2386.4 C    4.0  208.     1.7  121. 260.   6.3  0.0  0.30 -0.10
2388.0   2389.0 B    8.7  341.     1.7  121. 246.   6.3  0.0 -0.50  0.20
2391.7   2391.8 C    6.6  355.     1.6  131. 236.   6.3  0.0 -0.50 -0.10
2395.6   2395.7 C   12.8  335.     1.6  131. 246.   6.3  0.0 -0.60  0.50
2397.0   2397.4 C   13.1  350.     1.6  131. 260.   6.6  0.0 -0.70  0.50
2400.2   2400.4 B    7.1  160.     1.7  131. 241.   6.9  0.0  0.50 -0.40
2402.6   2402.8 C   11.3   77.     1.7  131. 223.   6.4  0.0 -0.40 -1.20
2406.0   2406.4 B    9.9  102.     1.7  131. 221.   6.3  0.0  0.10 -0.90
2410.0   2411.2 C    2.1  346.     1.7  131. 221.   6.3  0.0 -0.10 -0.10
2412.0   2412.3 C   12.3  345.     1.7  131. 241.   6.3  0.0 -0.80  0.20
2415.6   2415.7 C    7.0   67.     1.7  131. 251.   6.3  0.0 -0.60 -0.70
2418.4   2418.5 C   17.7   33.     1.7  131. 258.   6.3  0.0 -1.70 -0.60
2424.0   2425.0 C   20.9  351.     1.8  136. 226.   6.3  0.0 -1.80 -0.30
2427.6   2428.0 C    5.0  305.     1.8  131. 201.   6.3  0.0 -0.20  0.10
2429.0   2430.0 B   19.8  347.     1.8  131. 221.   6.3  0.0 -1.70 -0.30
2431.8   2432.0 B    6.0   17.     1.8  131. 226.   6.3  0.0 -0.50 -0.40
2433.0   2434.0 B    9.4    1.     1.8  131. 221.   6.3  0.0 -0.80 -0.40
2435.0   2435.7 C    1.0  350.     1.8  131. 221.   6.3  0.0  0.0  -0.10
2438.0   2438.4 C    3.6   27.     1.8  131. 236.   6.3  0.0 -0.30 -0.30
2445.0   2446.0 B   12.4    4.     1.8  131. 246.   6.3  0.0 -1.00 -0.10
2452.0   2452.4 C   23.5  354.     1.8  136. 201.   6.3  0.0 -2.20 -1.30
2454.0   2455.0 B   12.1  353.     1.8  141. 222.   6.3  0.0 -1.00 -0.30
2457.0   2458.0 B   17.5   42.     1.8  141. 218.   6.3  0.0 -1.30 -1.60
2462.0   2463.0 B   15.7    8.     1.8  111. 223.   6.3  0.0 -1.50 -0.80
2464.0   2465.0 B   12.3  348.     1.8  111. 231.   6.3  0.0 -1.00 -0.10
2468.0   2469.0 B   18.9  181.     1.8  121. 231.   6.3  0.0  1.80  0.20
2472.0   2473.0 B   17.5  349.     1.8  121. 208.   6.3  0.0 -1.60 -0.70
2475.0   2476.0 C    8.0   21.     1.8  121. 222.   6.3  0.0 -0.70 -0.60
2481.6   2482.0 B   15.7   16.     1.8  121. 231.   6.3  0.0 -1.50 -0.80
2489.0   2489.2 B   15.7   18.     1.8  121. 233.   6.3  0.0 -1.50 -0.80
2490.0   2491.0 B    8.0   20.     1.8  121. 221.   6.3  0.0 -0.70 -0.60
2493.0   2494.0 B   14.0   10.     1.8  121. 220.   6.3  0.0 -1.30 -0.80
2495.0   2496.0 B   21.1   21.     1.8  121. 220.   6.3  0.0 -2.00 -1.50
2502.0   2503.0 A    8.1   14.     1.9   93. 193.   6.3  0.0 -0.60 -0.80
2506.3   2507.0 A    4.7  259.     1.9  107. 225.   6.4  0.0  0.20  0.30
2511.0   2512.0 C   36.6  354.     1.9  109. 192.   6.3  0.0 -3.80 -2.80
2516.0   2517.0 B   18.0  324.     1.9  114. 174.   6.3  0.0 -1.60 -0.90
2524.0   2524.6 C   12.8  328.     1.9  108. 149.   6.3  0.0 -0.90 -1.00
2527.0   2527.5 C   13.4  329.     1.9  111. 155.   6.3  0.0 -1.00 -1.00
2529.0   2529.5 A   12.1  301.     1.9  111. 154.   6.4  0.0 -1.00 -0.50
2532.0   2533.0 B   11.4   23.     1.9  112. 153.   6.5  0.0  0.0  -1.00
2535.0   2536.0 C   11.0   75.     1.9  107. 149.   6.6  0.0  1.00 -0.20
2541.0   2542.0 B   16.8   53.     1.9  102. 155.   6.4  0.0  0.70 -1.10
2545.0   2546.0 B   12.1    7.     1.9  103. 172.   6.5  0.0 -0.70 -1.20
2550.0   2551.0 B   12.9  330.     1.9  105. 172.   6.4  0.0 -1.10 -0.80
2557.0   2558.0 B   13.1  349.     1.9  105. 182.   6.4  0.0 -1.10 -1.00
2561.0   2562.0 D   21.4  168.     1.9  115. 177.   6.4  0.0  2.20  1.70
2563.0   2564.0 B    6.4  237.     1.9  111. 151.   6.4  0.0 -0.10  0.40
2569.0   2570.0 C   15.1  301.     1.9  113.  95.   6.4  0.0 -0.70 -1.30
2572.0   2573.0 C   14.1   60.     2.0  117.  74.   6.4  0.0  1.40  1.20




                                                     DIA  DISPLACEMENTS
 CORRELATION   CORR. DIP     DIP  DRFT  DRFT AZ.     13   NO.1 NO.2 NO.3
 INTERVAL      GRADE ANGLE   AZ.  ANGLE AZ.  NO.1
```

```
2576.0   2577.0 C   21.7    78.    2.0   109.   40.   6.5   0.0   0.80   2.40
2578.0   2579.0 C   25.8    90.    2.0   107.   37.   6.5   0.0   0.30   2.70
2583.0   2584.0 C   27.6   297.    2.0   108.   27.   6.5   0.0   1.40  =1.30
2585.0   2586.0 C   12.9   321.    2.0   111.   21.   6.4   0.0   1.00   0.10
2591.6   2592.0 C   11.2   357.    2.0   114.   31.   6.3   0.0   1.00   0.60
2595.0   2596.0 C    7.1   320.    2.0   108.   21.   6.3   0.0   0.50   0.10
2597.0   2598.0 B    9.8   147.    2.0   106.  168.   6.3   0.0   1.10   0.60
2600.0   2602.0 B   16.2   304.    2.0   103.   16.   6.3   0.0   1.10  =0.20
2604.0   2606.0 B   17.5   325.    2.0   105.   26.   6.3   0.0   1.40   0.10
2609.0   2609.3 C   25.7     4.    2.0   103.   71.   6.3   0.0   2.20  =0.10
2618.0   2619.0 C   13.4   322.    1.7   111.  147.   6.3   0.0  =1.00  =1.00
2623.0   2624.0 C   17.7     5.    1.8   102.  191.   6.3   0.0  =1.50  =1.50
2627.0   2628.0 C   15.1   355.    1.8   118.  211.   6.4   0.0  =1.40  =0.70
2632.0   2633.0 B   22.2   348.    1.8   119.  200.   6.3   0.0  =2.10  =1.10
2637.0   2638.0 C   12.4   314.    1.7   116.  186.   6.4   0.0  =1.00  =0.20
2641.0   2642.0 C   10.7   292.    1.7   114.  199.   6.6   0.0  =0.50   0.40
2651.6   2652.0 C   22.6   327.    1.9   118.  210.   6.3   0.0  =1.80   0.0
2654.0   2655.0 B   13.7   344.    1.9   117.  195.   6.3   0.0  =1.20  =0.70
2658.0   2660.0 B   25.0   348.    2.0   108.  192.   6.3   0.0  =2.40  =1.60
2661.0   2662.0 B   13.6   342.    2.0   110.  205.   6.3   0.0  =1.20  =0.50
2665.0   2666.0 B   16.0   348.    2.0   108.  207.   6.4   0.0  =1.50  =0.70
2666.0   2667.0 A   13.5   342.    2.0   110.  211.   6.4   0.0  =1.20  =0.40
2673.0   2674.0 B   24.5   328.    2.0   112.  224.   6.3   0.0  =1.70   0.50
2675.0   2676.0 B   16.6   347.    2.0   109.  219.   6.4   0.0  =1.50  =0.40
2679.0   2680.0 B   21.8    15.    2.0   116.  209.   6.3   0.0  =2.00  =1.70
2683.0   2684.0 B   20.4   358.    2.0   100.  214.   6.3   0.0  =2.00  =1.00
2689.0   2690.0 B   11.2    17.    2.0   111.  262.   6.4   0.0  =1.00  =0.10
2691.0   2692.0 B   28.8   199.    2.0   106.  246.   6.3   0.0   2.80   0.50
2695.0   2696.0 B    6.4   338.    2.0   109.  246.   6.5   0.0  =0.40   0.10
2704.0   2706.0 C   56.2    99.    2.0   105.  214.   6.9   0.0   1.00  =7.80
2709.0   2710.0 C   23.0   154.    2.0   103.  237.   6.4   0.0   1.40  =1.10
2728.0   2730.0 C   46.7   346.    2.3   112.  228.   6.7   0.0  =5.10   0.0
2738.0   2740.0 C   39.2    76.    2.4   109.  256.   6.4   0.0  =4.10  =4.30
2751.7   2752.0 C    6.6    31.    2.2   109.  236.   6.7   0.0  =0.70  =0.60
2755.7   2756.0 C   10.5    21.    2.2   113.  224.   6.5   0.0  =1.00  =0.80
2762.0   2763.0 C   27.8   330.    2.2   113.  203.   6.5   0.0  =2.60  =0.50
2765.0   2766.0 B    9.3   307.    2.2   117.  207.   6.6   0.0  =0.50   0.20
2773.0   2774.0 C   16.7    10.    2.3   111.  205.   6.4   0.0  =1.50  =1.30
2777.0   2778.0 B    2.9   129.    2.4   114.  206.   6.3   0.0   0.30  =0.20
2781.0   2782.0 D    2.1   350.    2.4   115.  211.   6.3   0.0  =0.10  =0.20
2791.0   2791.3 B   11.6   305.    2.4   117.  161.   6.4   0.0  =0.90  =0.40
2795.0   2796.0 B   16.5    46.    2.3   107.  160.   6.4   0.0   0.40  =1.30
2797.0   2798.0 B   19.7    17.    2.3   104.  160.   6.4   0.0  =1.20  =2.00
2799.0   2800.0 B   12.4   344.    2.3   108.  207.   6.4   0.0  =1.10  =0.50
2802.0   2802.3 C   23.2   349.    2.5   121.  218.   6.3   0.0  =2.10  =0.60
2807.2   2807.3 C   17.8   343.    2.2   121.  218.   6.3   0.0  =1.50  =0.30
2810.3   2810.5 C    8.6   351.    2.2   121.  219.   6.3   0.0  =0.70  =0.30
2819.6   2820.0 C   29.9   282.    2.2   118.  186.   6.3   0.0  =0.70   2.10
2822.0   2823.0 C   10.3   205.    2.2   118.  211.   6.3   0.0   1.00   0.70
2825.2   2825.3 B    6.3   106.    2.2   118.  191.   6.3   0.0   0.50  =0.30
2829.0   2829.5 C   14.7   186.    2.2   118.  220.   6.3   0.0   1.50   0.50
2845.0   2846.0 C   40.4   104.    2.3   136.  161.   6.3   0.0   4.50   0.40
2849.0   2850.0 C   34.9    14.    2.3   136.  158.   6.3   0.0  =1.30  =3.60
2851.0   2851.3 C   30.3    25.    2.2   136.  158.   6.3   0.0  =0.50  =2.90
2856.0   2857.0 B    6.4    34.    2.2   136.  204.   6.3   0.0  =0.30  =0.60
```

```
CORRELATION   CORR. DIP     DIP  DRFT  DRFT AZ.    DIA  DISPLACEMENTS
INTERVAL      GRADE ANGLE   AZ.  ANGLE AZ.  NO.1   13  NO.1 NO.2  NO.3


2859.0  2860.0 A     8.4  334.   2.2  136. 180.   6.3  0.0 =0.60 =0.40
2861.0  2862.0 A     7.6    4.   2.2  136. 180.   6.3  0.0 =0.40 =0.60
2863.0  2864.0 B     9.9  337.   2.2  136. 171.   6.3  0.0 =0.70 =0.60
2865.0  2866.0 B    11.9    0.   2.2  136. 166.   6.3  0.0 =0.60 =1.00
2868.0  2868.3 C    16.2  322.   2.2  136. 156.   6.3  0.0 =1.30 =1.00
2874.0  2875.0 C     8.7  343.   2.3  139. 181.   6.3  0.0 =0.60 =0.50
2881.0  2881.3 C     6.4  329.   2.2  140. 184.   6.3  0.0 =0.40 =0.20
2885.0  2886.3 B    12.3   21.   2.2  140. 206.   6.3  0.0 =0.90 =1.00
2887.0  2888.0 B    11.6   67.   2.2  136. 178.   6.3  0.0  0.40 =0.80
2891.0  2891.3 C    15.6  223.   2.6  136. 169.   6.3  0.0  0.40  1.50
2894.0  2895.0 C    16.4    5.   2.6  136. 149.   6.3  0.0 =0.40 =1.40
2897.0  2898.0 B    35.3  349.   2.6  136. 131.   6.3  0.0 =1.20 =3.50
2903.0  2904.0 C    20.7  291.   2.6  136. 131.   6.3  0.0 =1.80 =1.10
2905.6  2906.0 C    16.0  352.   2.6  136. 131.   6.3  0.0 =0.30 =1.30
2915.0  2916.0 C    17.7  332.   2.3  136. 191.   6.3  0.0 =1.50 =0.60
2920.0  2921.0 C    26.3  358.   2.6  136. 180.   6.3  0.0 =2.10 =2.20
2923.0  2924.0 C    29.2  338.   2.6  136. 171.   6.3  0.0 =2.60 =2.10
```

THE FOLLOWING PARAMETERS APPLY TO THE LOG FROM 413.3 FEET TO 2924.0

MAGNETIC DECLINATION IS 20.5 DEGREES.

DRIFT AZIMUTH AND AZIMUTH OF NO. 1 ARM HAVE BEEN CORRECTED TO
TRUE NORTH IN THIS PRESENTATION.