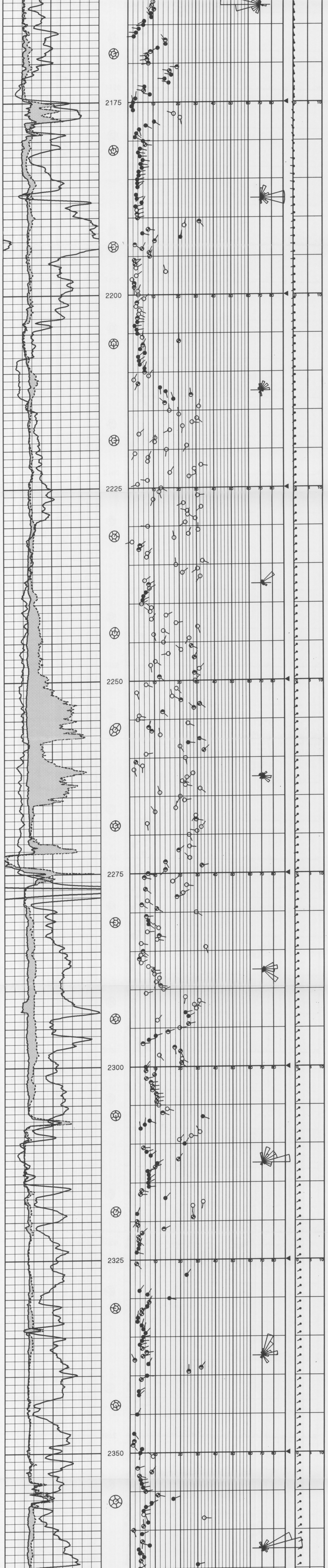

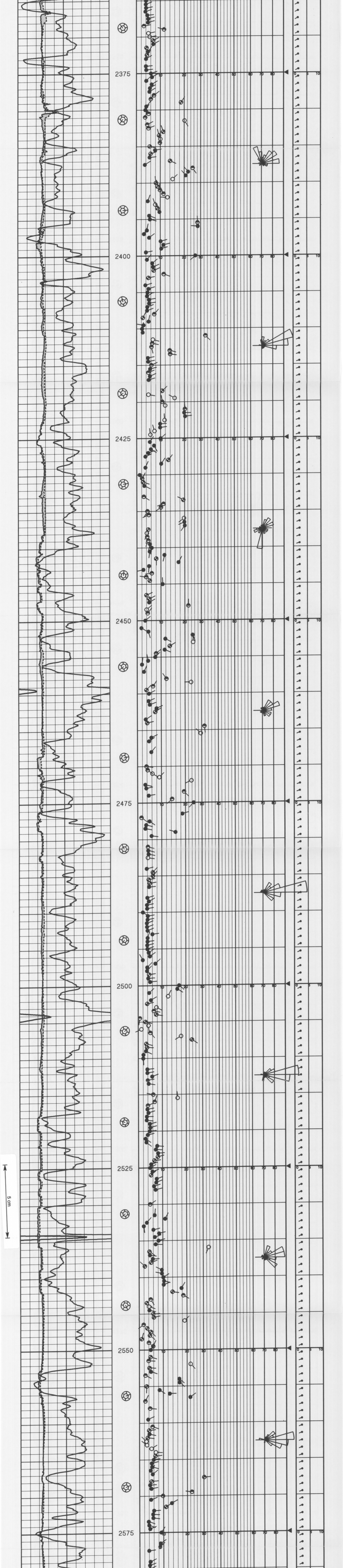

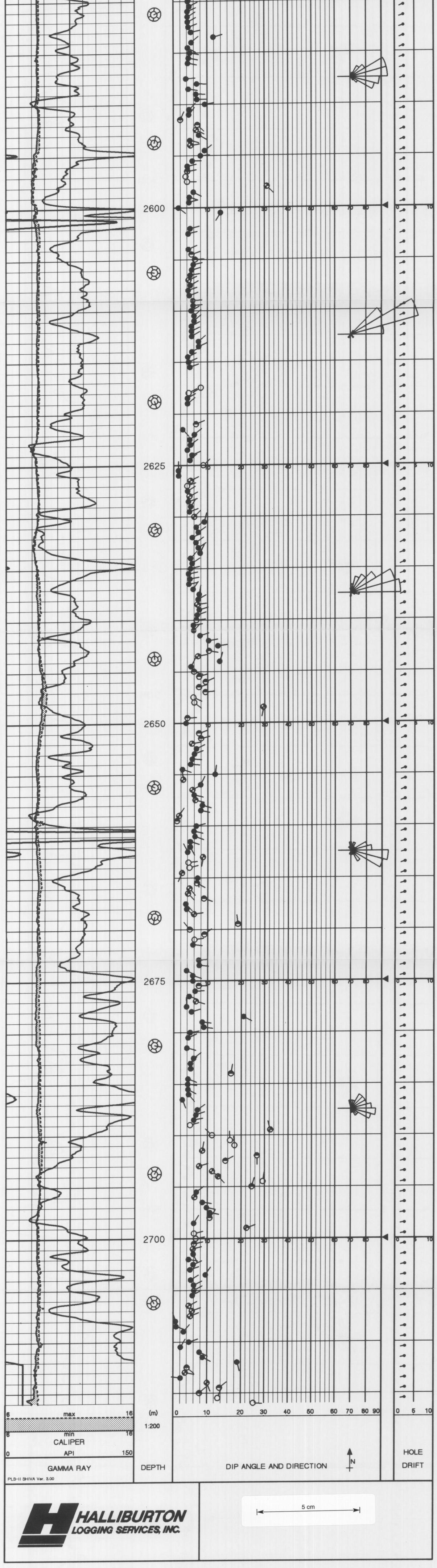

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HALLIBURTON/TESEL    SHIVA V3.00 : Correlation Listing                  Page :   0
================================================================================



                          Correlation parameters
                          ----------------------

                Output Files            :  SHIVA_0000.IF
                                           SHIVA_0000.PO
                Date                    :  19-DEC-1992
                Time                    :  05:41:39

                Tool type               :  SED/WBM

                Horizontal reference plane
                Shift Search Angle      :    35.00

                Dip Cutoff Angle        :    35.00
                Closure Cutoff Angle    :     1.50
                Planarity Cutoff        :     3.00

                Correlation Interval    :     1.00 m
                Correlation Step        :     0.50 m
                Declination             :    12.57

                Nmax                    :        3
                Pkfrac                  :   0.9000
                Mirror dip rejection    :     1.50

                Output Option           :  Nlines then Quality
                Quality rating          :  Method as at 3 Dec 87
                Slope and Offset        :   10,  30
                Nsrch                   :      20

                Quality weighting enabled


--------------------------------------------------------------------------------

 Line number :  1   2   3   4   5   6   7   8   9   10  11  12  13  14  15
 Arm pairs   : 1-2 1-3 1-4 1-5 1-6 2-6 3-6 4-6 5-6 5-2 5-3 5-4 2-4 3-4 2-3

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    Definition
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        Declination is the angle of Magnetic North relative to
        True North measured positive clockwise North to East.


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HALLIBURTON/TESEL    SHIVA V3.00 : Correlation Listing                  Page :   1
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 Depth    Hole      Computed    Diameters(Ins)  Quality  Arm   Pad    Planar
 Metres   Dev  Azi  Dip  Azi     1-4  2-5  3-6  Ind Avg Pairs Status
```

```
2716.00   2.7  257  25.3   93     8.5  8.4  8.1   D   16    6  IIIIII  0.996
2715.50   2.7  263  13.2   22     8.6  8.0  8.2   D   19    6  .II.II  1.108
2715.00   2.7  260   7.7   49     8.5  8.2  8.2   C   25    9  IIIIII  1.338
2714.50   2.7  258  13.7   50     8.4  8.4  8.2   C   30    7  IIIIII  1.408
2714.00   2.7  260  10.0  158     8.4  8.4  8.4   B   34    9  IIIIII  1.148
2713.50   2.7  259   2.2  276     8.3  8.4  8.3   A   58    8  IIIIII  0.588
2713.00   2.8  257   3.5  101     8.3  8.4  8.3   B   42    9  IIIIII  1.416
2712.50   2.6  259   4.1  129     8.5  8.3  8.3   C   28   12  IIIIII  1.384
2712.00   2.7  258  19.0  165     8.5  8.4  8.4   A   77    8  IIIII.  0.967
2711.50   2.7  259   8.7  118     8.6  8.4  8.4   A   74    9  IIII.I  1.439
2711.00   2.7  259   7.8  117     8.6  8.4  8.4   A   45   10  IIIIII  0.761
2710.50   2.7  259   2.2   30     8.6  8.5  8.5   A   59   14  IIIIII  1.429
2710.00   2.7  260   4.7   73     8.8  8.7  8.6   A   72   14  IIIIII  1.471
2709.50   2.7  260                8.7  8.5  8.5   -    0    0  ......
2709.00   2.7  260   3.1   40     8.6  8.4  8.4   A   48   15  IIIIII  1.187
2708.50   2.7  259   0.9  111     8.6  8.5  8.4   A   64   14  IIIIII  1.209
2708.00   2.7  259   0.7  342     8.7  8.5  8.5   A   84   15  IIIIII  1.447
2707.50   2.7  257   5.0   68     8.6  8.5  8.4   B   43   15  IIIIII  1.479
2707.00   2.7  257   5.5   69     8.6  8.5  8.5   B   35   15  IIIIII  1.411
2706.50   2.7  258   4.6   63     8.7  8.7  8.5   B   30   11  IIIIII  0.781
2706.00   2.7  258                8.6  8.5  8.5   -    0    0  ......
2705.50   2.7  258   5.6   62     8.7  8.5  8.5   A   85   15  IIIIII  0.696
2705.00   2.7  259   6.1   63     8.7  8.5  8.5   A   47   15  IIIIII  0.679
2704.50   2.6  260   6.0   64     8.7  8.5  8.5   A   77   15  IIIIII  1.271
2704.00   2.6  259   5.2   59     8.7  8.5  8.5   A   87   15  IIIIII  0.833
2703.50   2.6  259   9.5   34     8.6  8.6  8.6   A   89    9  III.II  0.924
2703.00   2.7  260   5.0   72     8.7  8.6  8.4   A   87   15  IIIIII  0.882
2702.50   2.7  259   5.9   67     8.5  8.5  8.5   A   94   15  IIIIII  1.416
2702.00   2.6  259   4.5  101     8.6  8.5  8.4   A   53    9  IIIIII  1.170
2701.50   2.6  258   5.9  155     8.5  8.4  8.4   A   65    8  .IIIII  1.822
2701.00   2.6  258   5.7   75     8.6  8.4  8.4   B   38   15  IIIIII  0.781
2700.50   2.6  258   6.1   78     8.6  8.4  8.4   C   24   15  IIIIII  0.848
2700.00   2.6  260   6.6   80     8.6  8.5  8.5   D   15   13  IIIIII  0.646
2699.50   2.6  261   6.0   78     8.5  8.4  8.5   D    8    6  III.II  0.345
2699.00   2.6  260  22.4   69     8.5  8.4  8.4   B   38    6  IIIIII  0.937
2698.50   2.5  260   6.0   33     8.5  8.4  8.4   A   53    5  III.II  1.019
2698.00   2.5  260  10.7   37     8.5  8.4  8.4   C   32   13  IIIIII  1.739
2697.50   2.5  260  10.7  102     8.5  8.5  8.5   A   54   11  IIIIII  1.087
2697.00   2.5  260   9.8  102     8.6  8.5  8.6   A   58   15  IIIIII  1.367
2696.50   2.5  260   8.5   98     8.6  8.6  8.6   A   57   14  IIIIII  1.474
2696.00   2.5  260   6.2   33     8.6  8.6  8.6   B   48   12  IIIIII  1.794
2695.50   2.5  260   6.8   52     8.7  8.6  8.6   A   56   10  IIIIII  1.285
2695.00   2.5  260  24.5   17     8.7  8.6  8.7   C   30    9  IIIIII  1.200
2694.50   2.5  260  29.2   10     8.6  8.6  8.6   E   13   11  IIIIII  1.307
2694.00   2.5  260  13.2  135     8.7  8.6  8.5   B   41   11  IIIIII  1.702
2693.50   2.5  260  11.4  129     8.7  8.7  8.6   B   51    8  IIIIII  2.090
2693.00   2.5  260   7.5   74     8.8  8.7  8.6   B   42   15  IIIIII  1.296
2692.50   2.5  259  15.3   60     8.8  8.7  8.6   C   28    9  IIIIII  1.508
2692.00   2.5  258  26.8  179     8.8  8.7  8.6   C   27    9  IIIIII  1.215
2691.50   2.5  259   8.4   11     8.8  8.7  8.6   B   26    7  IIIIII  0.460
2691.00   2.5  257  18.0  355     8.8  8.7  8.6   D   12    7  .IIIII  0.508
2690.50   2.6  258  16.7  357     8.9  8.8  9.1   E    6    8  IIIIII  0.740
2690.00   2.4  257  11.3  313     8.7  8.7  8.6   D   14    9  IIIIII  1.340
2689.50   2.4  257  32.4  345     8.8  8.6  8.5   B   33    7  IIIIII  1.132


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HALLIBURTON/TESEL    SHIVA V3.00 : Correlation Listing             Page :   2
================================================================================

 Depth     Hole      Computed    Diameters(Ins)  Quality  Arm   Pad   Planar
 Metres   Dev  Azi   Dip  Azi     1-4  2-5  3-6  Ind Avg Pairs Status

2689.00   2.4  256   4.8   75     8.7  8.6  8.5   D   16    9  IIIIII  1.133
2688.50   2.4  257   6.0   79     8.7  8.6  8.5   A   70   15  IIIIII  1.057
2688.00   2.4  256   6.6   70     8.6  8.5  8.5   A   74   15  IIIIII  0.727
2687.50   2.4  256   7.0   55     8.6  8.5  8.4   A   74   15  IIIIII  1.466
2687.00   2.4  257                8.7  8.6  8.4   -    0    0  ......
2686.50   2.4  257   2.6  159     8.7  8.6  8.5   A   66   11  IIIIII  1.681
2686.00   2.4  256   4.4  140     8.7  8.6  8.5   A   62   15  IIIIII  1.048
2685.50   2.4  256   4.3  120     8.7  8.6  8.5   A   81   15  IIIIII  1.082
2685.00   2.4  256   4.2   98     8.7  8.6  8.5   A   85   15  IIIIII  1.171
2684.50   2.4  254   4.3  111     8.7  8.6  8.5   A   87   13  IIIIII  1.466
2684.00   2.4  255  17.0   10     8.6  8.7  8.5   C   19    7  IIIIII  0.595
2683.50   2.4  255   5.0   15     8.7  8.6  8.6   A   84    6  II.III  0.923
2683.00   2.4  254   5.0   44     8.6  8.6  8.5   A   65   15  IIIIII  0.802
2682.50   2.4  254   5.9   53     8.6  8.6  8.4   A   69   15  IIIIII  0.955
2682.00   2.4  255                8.6  8.6  8.6   -    0    0  ......
2681.50   2.5  255   3.9  106     8.6  8.6  8.5   A   84   15  IIIIII  0.678
2681.00   2.4  254                8.6  8.6  8.3   -    0    0  ......
2680.50   2.5  255   4.3   67     8.6  8.6  8.3   A   59   15  IIIIII  0.533
2680.00   2.4  256   4.9   82     8.6  8.6  8.3   A   59   15  IIIIII  0.876
2679.50   2.5  255   8.9   97     8.6  8.6  8.3   A   69   14  IIIIII  1.492
2679.00   2.5  255   8.4   97     8.6  8.6  8.4   A   81   14  IIIIII  1.265
2678.50   2.4  256  21.1  120     8.5  8.5  8.3   A   70    7  IIIIII  1.410
2678.00   2.5  256   5.3   75     8.5  8.5  8.3   A   75    9  IIIIII  0.726
2677.50   2.5  257   3.8  359     8.6  8.5  8.3   A   61    9  IIIIII  1.160
2677.00   2.4  255   6.5  107     8.6  8.5  8.3   B   41   11  IIIIII  1.805
2676.50   2.4  256   4.6  112     8.5  8.4  8.3   A   65    9  IIIIII  1.130
2676.00   2.4  256   6.3   89     8.6  8.5  8.4   A   54   14  IIIIII  1.463
2675.50   2.5  255   7.4   89     8.6  8.5  8.4   C   31   14  IIIIII  1.603
2675.00   2.4  256   5.6   92     8.6  8.6  8.4   A   84   14  IIIIII  1.545
2674.50   2.4  256   5.6  108     8.7  8.6  8.4   A   85   15  IIIIII  1.231
2674.00   2.4  255   3.8  118     8.6  8.5  8.4   A   58   15  IIIIII  1.587
2673.50   2.5  256   7.5   97     8.6  8.5  8.3   A   81   15  IIIIII  1.591
2673.00   2.5  256   7.4   87     8.6  8.5  8.5   A   81   12  IIIIII  1.394
2672.50   2.5  257                8.6  8.5  8.5   -    0    0  ......
2672.00   2.4  257                8.5  8.5  8.4   -    0    0  ......
2671.50   2.5  256   5.7   96     8.6  8.5  8.5   A   53   13  IIIIII  1.568
2671.00   2.4  255   6.1   82     8.6  8.5  8.4   E   13   11  IIIIII  1.893
2670.50   2.4  254   9.0   52     8.6  8.5  8.4   C   20    7  III.II  0.691
2670.00   2.4  254   4.7  322     8.6  8.5  8.4   C   26    8  IIIIII  0.998
2669.50   2.4  253  19.0  352     8.5  8.5  8.5   C   25    3  I.I.I.  1.124
2669.00   2.4  254                8.5  8.5  8.4   -    0    0  ......
2668.50   2.4  255   5.9   83     8.5  8.5  8.4   B   28    6  .IIIII  0.582
2668.00   2.4  254   3.8  132     8.5  8.5  8.4   A   66   15  IIIIII  0.611
2667.50   2.5  254   3.5  137     8.6  8.4  8.4   A   65   15  IIIIII  0.661
2667.00   2.4  255   8.8  109     8.6  8.5  8.4   C   23   10  IIIIII  0.955
2666.50   2.5  254   4.1  136     8.6  8.5  8.4   B   30   15  IIIIII  0.450
2666.00   2.5  253   4.6  139     8.7  8.5  8.5   B   31   15  IIIIII  0.713
2665.50   2.5  253   6.8  119     8.7  8.6  8.5   C   30   15  IIIIII  1.267
2665.00   2.5  252   7.0  173     8.7  8.6  8.5   A   51    9  .IIIII  1.712
2664.50   2.6  252   2.4  204     8.7  8.6  8.5   B   37    8  IIIIII  1.604
2664.00   2.6  253   4.5   76     8.6  8.6  8.4   D   23   13  IIIIII  1.677
2663.50   2.6  253   4.2   84     8.6  8.6  8.4   D   22   10  IIIIII  1.507
2663.00   2.6  254   8.5  188     8.6  8.5  8.4   B   40    7  IIIII.  1.544
2662.50   2.6  254   4.1  333     8.6  8.5  8.4   A   73    6  I.IIII  1.429


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HALLIBURTON/TESEL    SHIVA V3.00 : Correlation Listing             Page :   3
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 Depth     Hole      Computed    Diameters(Ins)  Quality  Arm   Pad   Planar
 Metres   Dev  Azi   Dip  Azi     1-4  2-5  3-6  Ind Avg Pairs Status

2662.00   2.6  255   4.8  153     8.6  8.5  8.4   A   81    7  IIIIII  1.268
2661.50   2.6  254   4.8  107     8.5  8.4  8.3   A   81   15  IIIIII  1.187
2661.00   2.6  254   6.2  110     8.4  8.4  8.3   A   78   15  IIIIII  0.583
2660.50   2.6  254   5.9  103     8.5  8.4  8.3   A   86   15  IIIIII  0.645
2660.00   2.5  253   6.6   77     8.4  8.3  8.2   A   78   12  IIIIII  1.546
2659.50   2.5  254   0.9   22     8.5  8.3  9.0   C   25    7  IIIIII  1.021
2659.00   2.6  252   1.5   33     8.3  8.2  8.3   B   38   12  IIIIII  1.553
2658.50   2.6  252   7.9  103     8.3  8.2  8.3   A   76    8  IIIIII  1.520
2658.00   2.6  253   8.4  108     8.5  8.4  8.4   A   82   11  IIIIII  1.822
2657.50   2.6  252   6.3  105     8.5  8.4  8.4   B   36   13  IIIIII  0.912
2657.00   2.6  253   6.0  104     8.6  8.4  8.4   A   38   10  IIII.I  0.620
2656.50   2.6  253   5.4   62     8.6  8.4  8.4   B   39    8  IIIIII  1.147
2656.00   2.6  253   7.9   25     8.6  8.4  8.4   A   39    6  IIIIII  0.758
2655.50   2.6  253   2.7  354     8.5  8.4  8.4   B   44    7  IIIIII  1.440
2655.00   2.6  252  12.2    7     8.5  8.4  8.4   A   58    7  IIIII.  1.410
2654.50   2.6  252   2.5  109     8.5  8.4  8.3   A   81   12  IIIIII  1.422
2654.00   2.6  251   4.9   94     8.5  8.4  8.3   A   82    9  I.IIII  1.480
2653.50   2.6  249   5.4   94     8.5  8.4  8.3   A   81    9  I.IIII  1.420
2653.00   2.6  248   6.1   71     8.5  8.4  8.3   A   55   12  IIIIII  1.404
2652.50   2.5  248   6.7   65     8.5  8.4  8.4   A   47    8  II.III  1.517
2652.00   2.7  248   5.3   81     8.6  8.5  8.5   B   38   12  IIIIII  0.777
2651.50   2.6  248   8.0   76     8.7  8.5  8.5   C   33   12  IIIIII  1.274
2651.00   2.6  249   7.4   72     8.7  8.6  8.5   C   31   11  IIIIII  1.364
2650.50   2.6  249                8.8  8.6  8.6   -    0    0  ......
2650.00   2.6  250   3.6   92     8.8  8.6  8.6   A   52   15  IIIIII  0.736
2649.50   2.6  250   4.0   88     9.0  8.7  8.7   C   30   14  IIIIII  1.736
2649.00   2.6  250                9.0  8.8  8.8   -    0    0  ......
2648.50   2.6  250  29.4  189     9.1  8.8  8.9   B   36    7  II.III  1.327
2648.00   2.6  249   6.0  129     9.1  8.7  8.8   D   18   11  IIIIII  1.224
2647.50   2.6  250   5.7  115     9.1  8.8  8.8   D   24   11  IIIIII  1.631
2647.00   2.6  251   9.3   85     9.1  8.8  8.8   C   30   12  IIIIII  1.389
2646.50   2.6  252   7.4   74     9.0  8.8  8.7   C   29   13  IIIIII  1.380
2646.00   2.6  250   9.4   66     9.0  8.8  8.8   C   27    5  ..IIII  1.017
2645.50   2.5  252   7.4   72     8.9  8.8  8.8   C   31    8  I.IIII  1.120
2645.00   2.5  251   5.9  107     8.9  8.8  8.8   C   28    8  IIIIII  1.188
2644.50   2.6  251   5.1   27     8.8  8.7  8.6   A   67    8  .IIIII  1.627
2644.00   2.5  251  13.6   18     8.7  8.6  8.6   A   50   11  IIIIII  1.854
2643.50   2.5  250   7.1   80     8.7  8.6  8.6   B   38   13  IIIIII  1.295
2643.00   2.5  249  10.4   99     8.6  8.5  8.5   C   27   11  IIIIII  1.584
2642.50   2.6  249  13.1   84     8.5  8.5  8.5   A   68   13  IIIIII  1.136
2642.00   2.5  249  10.3   82     8.6  8.5  8.6   A   79   15  IIIIII  1.449
2641.50   2.5  252   7.8   74     8.9  8.5  8.7   A   77   14  IIIIII  0.907
2641.00   2.5  250   5.9   44     8.6  8.5  8.5   A   81   13  IIIIII  1.629
2640.50   2.5  249   5.8   82     8.6  8.5  8.5   A   47   15  IIIIII  0.956
2640.00   2.5  249   6.7   85     8.6  8.5  8.5   C   24   14  IIIIII  1.191
2639.50   2.5  249   6.9   71     8.6  8.5  8.5   A   49   12  IIIIII  1.045
2639.00   2.4  250   7.5   75     8.7  8.5  8.5   A   60   13  IIIIII  1.457
2638.50   2.4  250   6.9   82     8.7  8.4  8.5   B   39   15  IIIIII  1.008
2638.00   2.4  250   7.2   60     8.7  8.5  8.5   A   47   10  IIIIII  1.335
2637.50   2.5  250   7.5   10     8.6  8.4  8.4   A   66   11  IIIIII  1.582
2637.00   2.4  251   5.7   34     8.7  8.4  8.5   A   77   13  IIIIII  1.322
2636.50   2.4  250   4.5   80     8.6  8.4  8.5   A   48   12  IIIIII  0.996
2636.00   2.4  249   4.8   81     8.6  8.4  8.4   A   66   15  IIIIII  0.876
2635.50   2.4  249   4.4   80     8.4  8.3  8.4   A   55   15  IIIIII  0.651


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5 cm