

COMPUTATION

TIME DATE

10:06:08 13-NOV-84

ANTA FE ENERGY  
HENRY WELL NO. 1  
JUDY COUNTY, NEW MEXICO

BD2-140

| MEASURED<br>DEPTH<br>FEET | DRIFT<br>ANGLE<br>D M | DRIFT<br>DIRECTION<br>D | COURSE<br>LENGTH<br>FEET | TRUE<br>VERTICAL<br>DEPTH<br>FEET | R E C T A N G U L A R<br>C O O R D I N A T E S<br>FEET | DOGLEG<br>SEVERITY<br>DG/100FT |
|---------------------------|-----------------------|-------------------------|--------------------------|-----------------------------------|--------------------------------------------------------|--------------------------------|
| 3300.                     | 0 15                  | S 26 E                  | 93.                      | 3299.00                           | 11.98 S                                                | 57.38 E                        |
| 3394.                     | 0 15                  | N 1 E                   | 94.                      | 3393.00                           | 11.92 S                                                | 57.67 E                        |
| 3488.                     | 0 30                  | N 82 E                  | 94.                      | 3487.00                           | 11.50 S                                                | 58.05 E                        |
| 3581.                     | 0 15                  | S 44 W                  | 93.                      | 3579.99                           | 11.91 S                                                | 58.26 E                        |
| 3675.                     | 0 15                  | S 52 E                  | 94.                      | 3673.99                           | 12.27 S                                                | 58.28 E                        |
| 3768.                     | 0 30                  | N 76 E                  | 93.                      | 3766.99                           | 12.40 S                                                | 58.86 E                        |
| 3862.                     | 0 30                  | N 74 E                  | 94.                      | 3860.99                           | 12.13 S                                                | 59.65 E                        |
| 3956.                     | 0 30                  | S 74 E                  | 94.                      | 3954.98                           | 12.18 S                                                | 60.46 E                        |
| 4049.                     | 0 30                  | S 49 E                  | 93.                      | 4047.98                           | 12.57 S                                                | 61.17 E                        |
| 4143.                     | 0 15                  | S 86 W                  | 94.                      | 4141.98                           | 13.03 S                                                | 61.01 E                        |
| 4236.                     | 0 15                  | S 44 W                  | 93.                      | 4234.98                           | 13.19 S                                                | 60.66 E                        |
| 4330.                     | 0 15                  | S 25 E                  | 94.                      | 4328.98                           | 13.57 S                                                | 60.59 E                        |
| 4424.                     | 0 30                  | S 1 E                   | 94.                      | 4422.98                           | 14.11 S                                                | 60.73 E                        |
| 4517.                     | 0 15                  | S 11 W                  | 94.                      | 4515.98                           | 14.76 S                                                | 60.68 E                        |
| 4611.                     | 0 15                  | S 1 W                   | 94.                      | 4609.97                           | 15.18 S                                                | 60.63 E                        |
| 4704.                     | 0 30                  | S 29 W                  | 93.                      | 4702.97                           | 15.77 S                                                | 60.48 E                        |
| 4798.                     | 0 0                   | 0                       | 94.                      | 4796.97                           | 16.13 S                                                | 60.28 E                        |
| 4892.                     | 0 45                  | S 32 W                  | 94.                      | 4890.97                           | 16.65 S                                                | 59.95 E                        |
| 4985.                     | 0 45                  | S 50 W                  | 93.                      | 4983.96                           | 17.56 S                                                | 59.16 E                        |
| 5079.                     | 0 30                  | S 34 W                  | 94.                      | 5077.95                           | 18.32 S                                                | 58.47 E                        |
| 5172.                     | 0 15                  | S 37 W                  | 93.                      | 5170.95                           | 18.82 S                                                | 58.12 E                        |
| 5266.                     | 0 15                  | N 36 W                  | 94.                      | 5264.95                           | 18.82 S                                                | 57.77 E                        |
| 5360.                     | 0 30                  | S 52 W                  | 94.                      | 5358.95                           | 18.74 S                                                | 57.22 E                        |
| 5453.                     | 0 30                  | S 33 W                  | 93.                      | 5451.94                           | 19.33 S                                                | 56.67 E                        |
| 5547.                     | 0 30                  | S 24 W                  | 94.                      | 5545.94                           | 20.05 S                                                | 56.28 E                        |
| 5640.                     | 0 45                  | S 8 E                   | 93.                      | 5638.94                           | 21.05 S                                                | 56.14 E                        |
| 5734.                     | 0 30                  | S 37 W                  | 94.                      | 5732.93                           | 22.01 S                                                | 55.89 E                        |
| 5754.                     | 0 45                  | S 2 E                   | 20.                      | 5752.93                           | 22.22 S                                                | 55.83 E                        |

Eastman  
Whipstock

FINAL CLOSURE - DIRECTION: S 68 DEGS 18 MINS E

DISTANCE: 60.09 FEET