

DORCHESTER EXPLORATION  
HILL WELL NO. 1  
CHAVES COUNTY, NEW MEXICO BD1-240

| MEASURED DEPTH FEET | DRIFT ANGLE D M | DRIFT DIRECTION D | COURSE LENGTH FEET | TRUE VERTICAL DEPTH FEET | R E C T A N G U L A R C O O R D I N A T E S FEET | DOGLEG SEVERITY DG/100FT |
|---------------------|-----------------|-------------------|--------------------|--------------------------|--------------------------------------------------|--------------------------|
| 5612.               | 1 0             | S 32 W            | 94.                | 5611.24                  | 5.48 S 43.97 E                                   | 1.03                     |
| 5705.               | 1 15            | S 48 W            | 93.                | 5704.22                  | 6.87 S 42.80 E                                   | 0.43                     |
| 5798.               | 1 15            | S 54 W            | 93.                | 5797.20                  | 8.15 S 41.22 E                                   | 0.14                     |
| 5891.               | 1 15            | S 65 W            | 93.                | 5890.18                  | 9.18 S 39.48 E                                   | 0.26                     |
| 5985.               | 1 15            | S 51 W            | 94.                | 5984.15                  | 10.26 S 37.74 E                                  | 0.32                     |
| 6078.               | 1 0             | S 39 W            | 93.                | 6077.13                  | 11.55 S 36.45 E                                  | 0.37                     |
| 6171.               | 1 0             | S 49 W            | 93.                | 6170.12                  | 12.72 S 35.33 E                                  | 0.19                     |
| 6266.               | 0 45            | S 48 W            | 95.                | 6265.11                  | 13.68 S 34.24 E                                  | 0.26                     |
| 6358.               | 1 0             | S 42 W            | 92.                | 6357.10                  | 14.67 S 33.25 E                                  | 0.29                     |
| 6451.               | 1 0             | S 45 W            | 93.                | 6450.08                  | 15.85 S 32.13 E                                  | 0.06                     |
| 6544.               | 1 0             | S 75 W            | 93.                | 6543.07                  | 16.65 S 30.74 E                                  | 0.56                     |
| 6638.               | 1 0             | N 80 W            | 94.                | 6637.06                  | 16.72 S 29.11 E                                  | 0.46                     |
| 6731.               | 0 45            | N 75 W            | 93.                | 6730.05                  | 16.41 S 27.73 E                                  | 0.28                     |
| 6824.               | 1 0             | S 76 W            | 93.                | 6823.03                  | 16.40 S 26.33 E                                  | 0.54                     |
| 6918.               | 1 0             | S 78 W            | 94.                | 6917.02                  | 16.77 S 24.73 E                                  | 0.04                     |
| 7011.               | 1 0             | S 60 W            | 93.                | 7010.01                  | 17.35 S 23.22 E                                  | 0.34                     |
| 7104.               | 1 0             | S 58 W            | 93.                | 7102.99                  | 18.19 S 21.83 E                                  | 0.04                     |
| 7197.               | 0 0             | 0                 | 93.                | 7195.99                  | 18.62 S 21.14 E                                  | 1.08                     |
| 7220.               | 0 45            | N 85 W            | 23.                | 7218.99                  | 18.60 S 20.99 E                                  | 3.26                     |
| 7253.               | 1 45            | N 73 W            | 33.                | 7251.98                  | 18.47 S 20.28 E                                  | 3.12                     |
| 7278.               | 2 45            | N 55 W            | 25.                | 7276.96                  | 18.04 S 19.41 E                                  | 4.85                     |
| 7322.               | 3 0             | N 47 W            | 44.                | 7320.90                  | 16.65 S 17.69 E                                  | 1.07                     |
| 7418.               | 3 15            | N 52 W            | 96.                | 7416.76                  | 13.25 S 13.71 E                                  | 0.39                     |
| 7508.               | 3 45            | N 53 W            | 90.                | 7506.59                  | 9.91 S 9.35 E                                    | 0.56                     |
| 7633.               | 3 45            | N 53 W            | 125.               | 7631.33                  | 4.99 S 2.82 E                                    | 0.00                     |
| 7759.               | 5 15            | N 57 W            | 126.               | 7756.93                  | 0.68 N 5.27 W                                    | 1.22                     |
| 7836.               | 5 0             | N 60 W            | 77.                | 7833.63                  | 4.28 N 11.14 W                                   | 0.48                     |
| 8007.               | 4 30            | N 56 W            | 171.               | 8004.04                  | 11.78 N 23.14 W                                  | 0.35                     |
| 8083.               | 4 0             | N 56 W            | 76.                | 8079.83                  | 14.93 N 27.81 W                                  | 0.66                     |