

**HALLIBURTON**

30-039-27480

Devon SFS Operating Inc.  
New Mexico  
Rio Arriba County**Survey Report for Sec. 20-T30N-R7W - Northeast Blanco Unit 13B -  
MWD Surveys**

| Measured<br>Depth<br>(ft) | Incl.  | Azim.   | Vertical<br>Depth<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) |
|---------------------------|--------|---------|---------------------------|-------------------|------------------|-----------------------------|-----------------------------|
| 0.00                      | 0.000  | 0.000   | 0.00                      | 0.00 N            | 0.00 E           | 0.00                        |                             |
| 369.00                    | 1.100  | 331.500 | 368.98                    | 3.11 N            | 1.69 W           | -1.80                       | 0.298                       |
| 400.00                    | 0.900  | 284.900 | 399.97                    | 3.44 N            | 2.07 W           | -1.88                       | 2.620                       |
| 430.00                    | 2.000  | 251.500 | 429.96                    | 3.33 N            | 2.79 W           | -1.42                       | 4.478                       |
| 460.00                    | 2.700  | 253.000 | 459.94                    | 2.96 N            | 3.96 W           | -0.50                       | 2.342                       |
| 490.00                    | 3.400  | 241.300 | 489.90                    | 2.32 N            | 5.42 W           | 0.79                        | 3.111                       |
| 520.00                    | 4.000  | 228.700 | 519.83                    | 1.21 N            | 6.99 W           | 2.56                        | 3.357                       |
| 550.00                    | 5.100  | 219.500 | 549.74                    | 0.51 S            | 8.62 W           | 4.87                        | 4.389                       |
| 581.00                    | 6.200  | 217.200 | 580.59                    | 2.91 S            | 10.51 W          | 7.90                        | 3.622                       |
| 611.00                    | 7.200  | 214.200 | 610.38                    | 5.75 S            | 12.55 W          | 11.39                       | 3.531                       |
| 641.00                    | 8.400  | 212.400 | 640.10                    | 9.16 S            | 14.78 W          | 15.46                       | 4.082                       |
| 671.00                    | 9.100  | 208.500 | 669.76                    | 13.09 S           | 17.08 W          | 20.02                       | 3.057                       |
| 702.00                    | 10.200 | 207.600 | 700.32                    | 17.68 S           | 19.52 W          | 25.21                       | 3.581                       |
| 732.00                    | 11.200 | 208.300 | 729.79                    | 22.60 S           | 22.14 W          | 30.77                       | 3.361                       |
| 762.00                    | 12.300 | 206.400 | 759.17                    | 28.03 S           | 24.94 W          | 36.87                       | 3.886                       |
| 792.00                    | 13.400 | 205.100 | 788.41                    | 34.04 S           | 27.83 W          | 43.51                       | 3.791                       |
| 822.00                    | 14.800 | 205.800 | 817.51                    | 40.64 S           | 30.98 W          | 50.78                       | 4.701                       |
| 852.00                    | 15.800 | 205.100 | 846.45                    | 47.79 S           | 34.38 W          | 58.66                       | 3.390                       |
| 882.00                    | 16.300 | 207.900 | 875.28                    | 55.21 S           | 38.08 W          | 66.93                       | 3.071                       |
| 911.00                    | 17.000 | 208.000 | 903.06                    | 62.54 S           | 41.97 W          | 75.23                       | 2.416                       |
| 942.00                    | 18.800 | 209.700 | 932.56                    | 70.89 S           | 46.58 W          | 84.75                       | 6.046                       |
| 972.00                    | 20.300 | 209.900 | 960.83                    | 79.60 S           | 51.57 W          | 94.78                       | 5.005                       |
| 1003.00                   | 21.500 | 208.000 | 989.79                    | 89.27 S           | 56.91 W          | 105.83                      | 4.445                       |
| 1033.00                   | 22.100 | 208.500 | 1017.64                   | 99.09 S           | 62.19 W          | 116.96                      | 2.094                       |
| 1063.00                   | 23.100 | 209.800 | 1045.34                   | 109.15 S          | 67.81 W          | 128.49                      | 3.726                       |
| 1092.00                   | 24.300 | 210.400 | 1071.89                   | 119.24 S          | 73.65 W          | 140.14                      | 4.221                       |
| 1123.00                   | 25.800 | 210.700 | 1099.98                   | 130.54 S          | 80.32 W          | 153.26                      | 4.856                       |
| 1152.00                   | 26.500 | 211.100 | 1126.01                   | 141.51 S          | 86.89 W          | 166.05                      | 2.489                       |
| 1182.00                   | 27.700 | 210.400 | 1152.71                   | 153.25 S          | 93.87 W          | 179.71                      | 4.139                       |
| 1212.00                   | 29.000 | 210.300 | 1179.12                   | 165.55 S          | 101.07 W         | 193.96                      | 4.336                       |
| 1242.00                   | 30.100 | 210.600 | 1205.21                   | 178.30 S          | 108.57 W         | 208.75                      | 3.700                       |
| 1272.00                   | 31.100 | 211.200 | 1231.03                   | 191.40 S          | 116.41 W         | 224.02                      | 3.485                       |
| 1302.00                   | 32.100 | 210.500 | 1256.59                   | 204.90 S          | 124.47 W         | 239.74                      | 3.550                       |
| 1333.00                   | 33.300 | 210.900 | 1282.67                   | 219.30 S          | 133.02 W         | 256.49                      | 3.933                       |
| 1367.00                   | 34.200 | 210.700 | 1310.94                   | 235.52 S          | 142.70 W         | 275.38                      | 2.667                       |
| 1399.00                   | 35.000 | 210.700 | 1337.28                   | 251.15 S          | 151.97 W         | 293.55                      | 2.500                       |
| 1430.00                   | 35.900 | 211.400 | 1362.54                   | 266.55 S          | 161.25 W         | 311.53                      | 3.185                       |
| 1461.00                   | 36.800 | 211.300 | 1387.50                   | 282.24 S          | 170.81 W         | 329.90                      | 2.910                       |
| 1493.00                   | 38.200 | 210.900 | 1412.89                   | 298.92 S          | 180.87 W         | 349.38                      | 4.441                       |
| 1524.00                   | 39.400 | 210.900 | 1437.05                   | 315.59 S          | 190.84 W         | 368.80                      | 3.871                       |

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MWD Surveys

| Measured<br>Depth<br>(ft) | Incl.  | Azim.   | Vertical<br>Depth<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) |
|---------------------------|--------|---------|---------------------------|-------------------|------------------|-----------------------------|-----------------------------|
| 1556.00                   | 39.900 | 210.900 | 1461.69                   | 333.11 S          | 201.33 W         | 389.22                      | 1.563                       |
| 1587.00                   | 40.200 | 210.600 | 1485.42                   | 350.25 S          | 211.53 W         | 409.17                      | 1.151                       |
| 1651.00                   | 40.400 | 210.700 | 1534.23                   | 385.87 S          | 232.63 W         | 450.56                      | 0.328                       |
| 1713.00                   | 40.400 | 210.500 | 1581.44                   | 420.45 S          | 253.08 W         | 490.75                      | 0.209                       |
| 1774.00                   | 40.300 | 211.000 | 1627.93                   | 454.39 S          | 273.28 W         | 530.24                      | 0.555                       |
| 1836.00                   | 40.700 | 210.700 | 1675.08                   | 488.96 S          | 293.93 W         | 570.51                      | 0.718                       |
| 1899.00                   | 40.600 | 210.500 | 1722.88                   | 524.29 S          | 314.82 W         | 611.55                      | 0.261                       |
| 1961.00                   | 41.000 | 210.200 | 1769.81                   | 559.25 S          | 335.29 W         | 652.06                      | 0.718                       |
| 2023.00                   | 41.900 | 209.900 | 1816.28                   | 594.77 S          | 355.84 W         | 693.09                      | 1.487                       |
| 2087.00                   | 41.800 | 209.800 | 1863.95                   | 631.81 S          | 377.09 W         | 735.78                      | 0.188                       |
| 2149.00                   | 40.000 | 210.300 | 1910.81                   | 666.95 S          | 397.41 W         | 776.37                      | 2.951                       |
| 2211.00                   | 40.300 | 210.900 | 1958.20                   | 701.36 S          | 417.76 W         | 816.35                      | 0.790                       |
| 2274.00                   | 40.900 | 211.000 | 2006.04                   | 736.52 S          | 438.85 W         | 857.34                      | 0.958                       |
| 2338.00                   | 40.300 | 210.700 | 2054.63                   | 772.27 S          | 460.21 W         | 898.99                      | 0.986                       |
| 2401.00                   | 40.500 | 210.600 | 2102.61                   | 807.40 S          | 481.02 W         | 939.82                      | 0.334                       |
| 2463.00                   | 41.200 | 211.000 | 2149.51                   | 842.23 S          | 501.79 W         | 980.38                      | 1.205                       |
| 2526.00                   | 41.300 | 211.900 | 2196.87                   | 877.67 S          | 523.46 W         | 1021.91                     | 0.955                       |
| 2588.00                   | 41.600 | 212.000 | 2243.34                   | 912.49 S          | 545.18 W         | 1062.95                     | 0.496                       |
| 2651.00                   | 41.700 | 210.900 | 2290.42                   | 948.21 S          | 567.02 W         | 1104.81                     | 1.171                       |
| 2682.00                   | 41.600 | 210.400 | 2313.58                   | 965.93 S          | 577.53 W         | 1125.42                     | 1.119                       |
| 2744.00                   | 40.500 | 210.100 | 2360.34                   | 1001.10 S         | 598.04 W         | 1166.13                     | 1.802                       |
| 2806.00                   | 40.800 | 209.900 | 2407.38                   | 1036.08 S         | 618.23 W         | 1206.51                     | 0.528                       |
| 2869.00                   | 40.200 | 209.300 | 2455.28                   | 1071.66 S         | 638.44 W         | 1247.42                     | 1.136                       |
| 2931.00                   | 40.100 | 209.400 | 2502.67                   | 1106.50 S         | 658.04 W         | 1287.38                     | 0.192                       |
| 2993.00                   | 39.500 | 208.400 | 2550.31                   | 1141.24 S         | 677.22 W         | 1327.04                     | 1.415                       |
| 3054.00                   | 39.700 | 208.600 | 2597.31                   | 1175.42 S         | 695.77 W         | 1365.88                     | 0.389                       |
| 3117.00                   | 39.600 | 209.200 | 2645.82                   | 1210.61 S         | 715.20 W         | 1406.06                     | 0.628                       |
| 3178.00                   | 39.700 | 210.700 | 2692.79                   | 1244.33 S         | 734.63 W         | 1444.97                     | 1.578                       |
| 3239.00                   | 40.000 | 212.300 | 2739.62                   | 1277.66 S         | 755.06 W         | 1484.05                     | 1.751                       |
| 3302.00                   | 39.600 | 213.300 | 2788.02                   | 1311.55 S         | 776.90 W         | 1524.36                     | 1.198                       |
| 3365.00                   | 39.500 | 213.400 | 2836.60                   | 1345.06 S         | 798.95 W         | 1564.44                     | 0.188                       |
| 3428.00                   | 39.400 | 213.100 | 2885.24                   | 1378.54 S         | 820.90 W         | 1604.44                     | 0.342                       |
| 3491.00                   | 38.200 | 213.600 | 2934.34                   | 1411.52 S         | 842.60 W         | 1643.88                     | 1.969                       |
| 3553.00                   | 38.300 | 215.700 | 2983.03                   | 1443.09 S         | 864.42 W         | 1682.18                     | 2.103                       |
| 3615.00                   | 37.600 | 216.200 | 3031.92                   | 1473.95 S         | 886.81 W         | 1720.16                     | 1.233                       |
| 3679.00                   | 37.800 | 218.000 | 3082.56                   | 1505.17 S         | 910.41 W         | 1759.07                     | 1.748                       |
| 3741.00                   | 38.300 | 216.600 | 3131.39                   | 1535.56 S         | 933.57 W         | 1797.05                     | 1.608                       |
| 3803.00                   | 37.700 | 215.300 | 3180.24                   | 1566.46 S         | 955.98 W         | 1835.08                     | 1.613                       |
| 3866.00                   | 37.800 | 215.300 | 3230.06                   | 1597.94 S         | 978.26 W         | 1873.53                     | 0.159                       |
| 3929.00                   | 37.400 | 213.500 | 3279.97                   | 1629.65 S         | 999.98 W         | 1911.90                     | 1.855                       |

13 ft  
10/10/03  
10/10/03  
10/10/03

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| Measured<br>Depth<br>(ft) | Incl.  | Azim.   | Vertical<br>Depth<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) |
|---------------------------|--------|---------|---------------------------|-------------------|------------------|-----------------------------|-----------------------------|
| 3991.00                   | 36.300 | 212.600 | 3329.59                   | 1660.81 S         | 1020.26 W        | 1949.06                     | 1.976                       |
| 4054.00                   | 35.100 | 211.700 | 3380.75                   | 1691.94 S         | 1039.83 W        | 1985.81                     | 2.079                       |
| 4117.00                   | 32.700 | 211.300 | 3433.03                   | 1721.89 S         | 1058.19 W        | 2020.94                     | 3.826                       |
| 4180.00                   | 30.200 | 213.300 | 3486.78                   | 1749.68 S         | 1075.73 W        | 2053.80                     | 4.300                       |
| 4243.00                   | 27.300 | 214.600 | 3542.00                   | 1774.82 S         | 1092.64 W        | 2084.06                     | 4.709                       |
| 4306.00                   | 24.300 | 216.100 | 3598.72                   | 1797.19 S         | 1108.49 W        | 2111.39                     | 4.873                       |
| 4368.00                   | 22.300 | 214.500 | 3655.66                   | 1817.20 S         | 1122.67 W        | 2135.84                     | 3.383                       |
| 4432.00                   | 20.200 | 214.700 | 3715.31                   | 1836.29 S         | 1135.84 W        | 2158.99                     | 3.283                       |
| 4494.00                   | 17.300 | 216.300 | 3774.01                   | 1852.53 S         | 1147.39 W        | 2178.85                     | 4.750                       |
| 4556.00                   | 15.700 | 217.700 | 3833.45                   | 1866.59 S         | 1157.98 W        | 2196.37                     | 2.659                       |
| 4619.00                   | 13.700 | 219.400 | 3894.39                   | 1879.10 S         | 1167.93 W        | 2212.21                     | 3.247                       |
| 4680.00                   | 12.000 | 223.000 | 3953.86                   | 1889.32 S         | 1176.84 W        | 2225.56                     | 3.079                       |
| 4741.00                   | 9.900  | 224.800 | 4013.75                   | 1897.68 S         | 1184.86 W        | 2236.86                     | 3.488                       |
| 4803.00                   | 7.500  | 232.500 | 4075.03                   | 1903.93 S         | 1191.82 W        | 2245.80                     | 4.294                       |
| 4879.00                   | 4.800  | 236.600 | 4150.59                   | 1908.70 S         | 1198.42 W        | 2253.28                     | 3.597                       |
| 4917.00                   | 3.400  | 236.600 | 4188.49                   | 1910.20 S         | 1200.68 W        | 2255.73                     | 3.684                       |

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to True North.  
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet (US Survey).  
Vertical Section is from Well and calculated along an Azimuth of 210.964° (True).

Magnetic Declination at Surface is 10.842°(01-Aug-03)

Based upon Minimum Curvature type calculations, at a Measured Depth of 4917.00ft.,  
The Bottom Hole Displacement is 2256.21ft., in the Direction of 212.152° (True).

### Comments

| Measured<br>Depth<br>(ft) | Station Coordinates<br>TVD<br>(ft) | Northings<br>(ft) | Eastings<br>(ft) | Comment           |
|---------------------------|------------------------------------|-------------------|------------------|-------------------|
| 4917.00                   | 4188.49                            | 1910.20 S         | 1200.68 W        | Projection to bit |