

## HALLIBURTON

## DIRECTIONAL SURVEY REPORT

BURNETT OIL CO. INC.  
GISSLER B No. 51  
LOCO HILLS GLORIETA YESO  
EDDY NEW MEXICO  
USA  
6895404

| Measured<br>Depth<br>(feet) | Inclination<br>(degrees) | Direction<br>(degrees) | Vertical<br>Depth<br>(feet) | Latitude<br>(feet) | Departure<br>(feet) | Vertical<br>Section<br>(feet) | Dogleg<br>(deg/100ft) |
|-----------------------------|--------------------------|------------------------|-----------------------------|--------------------|---------------------|-------------------------------|-----------------------|
| 430.00                      | 0.00                     | 0.00                   | 430.00                      | 0.00 N             | 0.00 E              | 0.00                          | TIE-IN                |
| 450.00                      | 0.46                     | 41.97                  | 450.00                      | 0.06 N             | 0.05 E              | -0.08                         | 2.31                  |
| 480.00                      | 0.45                     | 38.74                  | 480.00                      | 0.24 N             | 0.21 E              | -0.31                         | 0.10                  |
| 510.00                      | 0.42                     | 12.91                  | 510.00                      | 0.44 N             | 0.31 E              | -0.51                         | 0.65                  |
| 540.00                      | 0.32                     | 302.04                 | 540.00                      | 0.59 N             | 0.26 E              | -0.56                         | 1.45                  |
| 570.00                      | 0.21                     | 282.12                 | 570.00                      | 0.65 N             | 0.13 E              | -0.50                         | 0.49                  |
| 600.00                      | 0.59                     | 250.75                 | 600.00                      | 0.61 N             | 0.07 W              | -0.32                         | 1.42                  |
| 630.00                      | 0.69                     | 257.42                 | 629.99                      | 0.52 N             | 0.39 W              | -0.00                         | 0.42                  |
| 660.00                      | 1.12                     | 246.08                 | 659.99                      | 0.36 N             | 0.83 W              | 0.45                          | 1.55                  |
| 690.00                      | 1.03                     | 248.66                 | 689.99                      | 0.14 N             | 1.35 W              | 0.99                          | 0.34                  |
| 720.00                      | 1.40                     | 246.99                 | 719.98                      | 0.10 S             | 1.94 W              | 1.61                          | 1.24                  |
| 750.00                      | 1.34                     | 238.92                 | 749.97                      | 0.42 S             | 2.58 W              | 2.31                          | 0.68                  |
| 780.00                      | 1.46                     | 221.62                 | 779.96                      | 0.89 S             | 3.13 W              | 3.03                          | 1.46                  |
| 810.00                      | 1.85                     | 225.06                 | 809.95                      | 1.52 S             | 3.73 W              | 3.89                          | 1.35                  |
| 840.00                      | 1.77                     | 231.54                 | 839.93                      | 2.15 S             | 4.44 W              | 4.83                          | 0.73                  |
| 870.00                      | 2.15                     | 229.70                 | 869.92                      | 2.80 S             | 5.23 W              | 5.86                          | 1.26                  |
| 900.00                      | 2.52                     | 225.86                 | 899.89                      | 3.62 S             | 6.13 W              | 7.07                          | 1.36                  |
| 930.00                      | 2.16                     | 234.30                 | 929.87                      | 4.41 S             | 7.06 W              | 8.29                          | 1.68                  |
| 960.00                      | 2.72                     | 223.61                 | 959.84                      | 5.26 S             | 8.01 W              | 9.56                          | 2.40                  |
| 990.00                      | 2.89                     | 224.82                 | 989.80                      | 6.31 S             | 9.04 W              | 11.01                         | 0.61                  |
| 1020.00                     | 3.29                     | 226.81                 | 1019.76                     | 7.44 S             | 10.20 W             | 12.62                         | 1.39                  |
| 1050.00                     | 3.50                     | 222.11                 | 1049.71                     | 8.71 S             | 11.44 W             | 14.38                         | 1.16                  |
| 1080.00                     | 3.66                     | 223.98                 | 1079.65                     | 10.07 S            | 12.72 W             | 16.22                         | 0.67                  |
| 1110.00                     | 4.08                     | 222.25                 | 1109.58                     | 11.55 S            | 14.10 W             | 18.22                         | 1.46                  |
| 1140.00                     | 4.19                     | 223.33                 | 1139.50                     | 13.14 S            | 15.57 W             | 20.35                         | 0.45                  |
| 1170.00                     | 4.09                     | 221.31                 | 1169.42                     | 14.74 S            | 17.03 W             | 22.48                         | 0.59                  |
| 1200.00                     | 4.54                     | 220.04                 | 1199.34                     | 16.46 S            | 18.50 W             | 24.69                         | 1.52                  |
| 1230.00                     | 4.47                     | 221.03                 | 1229.25                     | 18.25 S            | 20.03 W             | 26.99                         | 0.34                  |
| 1260.00                     | 5.21                     | 219.99                 | 1259.14                     | 20.17 S            | 21.68 W             | 29.47                         | 2.48                  |
| 1290.00                     | 5.41                     | 219.14                 | 1289.01                     | 22.32 S            | 23.45 W             | 32.17                         | 0.71                  |
| 1320.00                     | 5.72                     | 220.78                 | 1318.87                     | 24.55 S            | 25.32 W             | 35.01                         | 1.17                  |
| 1350.00                     | 5.73                     | 218.25                 | 1348.72                     | 26.85 S            | 27.22 W             | 37.92                         | 0.84                  |
| 1380.00                     | 5.92                     | 218.50                 | 1378.56                     | 29.24 S            | 29.11 W             | 40.87                         | 0.64                  |
| 1410.00                     | 6.15                     | 219.46                 | 1408.40                     | 31.69 S            | 31.09 W             | 43.93                         | 0.85                  |
| 1440.00                     | 6.10                     | 218.99                 | 1438.23                     | 34.17 S            | 33.12 W             | 47.04                         | 0.24                  |
| 1470.00                     | 5.99                     | 219.43                 | 1468.06                     | 36.62 S            | 35.11 W             | 50.11                         | 0.38                  |
| 1500.00                     | 6.23                     | 219.59                 | 1497.89                     | 39.08 S            | 37.15 W             | 53.23                         | 0.80                  |
| 1530.00                     | 6.46                     | 220.40                 | 1527.70                     | 41.62 S            | 39.28 W             | 56.46                         | 0.80                  |
| 1560.00                     | 6.56                     | 221.26                 | 1557.51                     | 44.19 S            | 41.50 W             | 59.79                         | 0.48                  |
| 1590.00                     | 6.29                     | 221.72                 | 1587.32                     | 46.71 S            | 43.73 W             | 63.08                         | 0.91                  |
| 1620.00                     | 6.24                     | 222.56                 | 1617.14                     | 49.14 S            | 45.92 W             | 66.30                         | 0.36                  |
| 1650.00                     | 6.14                     | 223.81                 | 1646.97                     | 51.50 S            | 48.14 W             | 69.49                         | 0.55                  |
| 1680.00                     | 5.99                     | 225.77                 | 1676.80                     | 53.75 S            | 50.37 W             | 72.63                         | 0.86                  |
| 1710.00                     | 5.91                     | 227.10                 | 1706.64                     | 55.89 S            | 52.62 W             | 75.72                         | 0.52                  |
| 1740.00                     | 5.84                     | 228.94                 | 1736.48                     | 57.94 S            | 54.91 W             | 78.78                         | 0.68                  |
| 1770.00                     | 5.77                     | 229.42                 | 1766.33                     | 59.93 S            | 57.20 W             | 81.81                         | 0.29                  |
| 1800.00                     | 5.60                     | 230.86                 | 1796.18                     | 61.83 S            | 59.48 W             | 84.78                         | 0.72                  |
| 1830.00                     | 5.47                     | 230.58                 | 1826.04                     | 63.66 S            | 61.72 W             | 87.67                         | 0.47                  |
| 1860.00                     | 5.61                     | 231.86                 | 1855.90                     | 65.48 S            | 63.98 W             | 90.56                         | 0.64                  |
| 1890.00                     | 5.52                     | 232.25                 | 1885.76                     | 67.27 S            | 66.27 W             | 93.47                         | 0.33                  |
| 1920.00                     | 5.41                     | 231.84                 | 1915.62                     | 69.02 S            | 68.53 W             | 96.33                         | 0.38                  |
| 1950.00                     | 5.30                     | 232.50                 | 1945.49                     | 70.74 S            | 70.74 W             | 99.13                         | 0.44                  |
| 1980.00                     | 5.14                     | 231.60                 | 1975.37                     | 72.42 S            | 72.89 W             | 101.86                        | 0.57                  |

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|---------|------|--------|---------|---------|---------|--------|------|
| 2000.00 | 5.17 | 232.71 | 2005.25 | 74.07 S | 75.02 W | 104.55 | 0.34 |
| 2010.00 | 5.16 | 232.71 | 2005.25 | 74.07 S | 75.02 W | 104.55 | 0.34 |
| 2040.00 | 5.38 | 233.84 | 2035.12 | 75.72 S | 77.23 W | 107.31 | 0.81 |

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|---------|------|--------|---------|---------|---------|--------|------|
| 2070.00 | 5.22 | 234.28 | 2064.99 | 77.35 S | 79.47 W | 110.08 | 0.54 |
| 2100.00 | 4.82 | 233.50 | 2094.87 | 78.91 S | 81.62 W | 112.73 | 1.02 |
| 2130.00 | 4.75 | 233.68 | 2124.77 | 80.41 S | 83.65 W | 115.26 | 0.57 |
| 2160.00 | 4.96 | 233.88 | 2154.66 | 81.91 S | 85.70 W | 117.80 | 0.89 |
| 2190.00 | 4.92 | 233.57 | 2184.55 | 83.44 S | 87.78 W | 120.38 | 0.16 |

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| 2220.00 | 4.86 | 233.46 | 2214.44 | 84.96 S | 89.84 W | 122.94 | 0.20 |
| 2250.00 | 4.84 | 233.75 | 2244.33 | 86.47 S | 91.88 W | 125.48 | 0.10 |
| 2280.00 | 4.80 | 232.80 | 2274.22 | 87.98 S | 93.90 W | 128.00 | 0.30 |
| 2310.00 | 4.62 | 232.24 | 2304.12 | 89.47 S | 95.86 W | 130.46 | 0.61 |
| 2340.00 | 4.42 | 231.52 | 2334.03 | 90.94 S | 97.72 W | 132.83 | 0.69 |

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| 2370.00 | 4.27 | 231.12 | 2363.94 | 92.36 S | 99.50 W  | 135.10 | 0.54 |
| 2400.00 | 4.33 | 230.33 | 2393.86 | 93.78 S | 101.24 W | 137.35 | 0.29 |
| 2430.00 | 4.02 | 231.21 | 2423.78 | 95.16 S | 102.93 W | 139.53 | 1.05 |
| 2460.00 | 3.93 | 231.78 | 2453.71 | 96.45 S | 104.55 W | 141.61 | 0.34 |
| 2490.00 | 3.67 | 231.25 | 2483.64 | 97.69 S | 106.11 W | 143.60 | 0.86 |

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|---------|------|--------|---------|----------|----------|--------|------|
| 2520.00 | 3.63 | 230.60 | 2513.58 | 98.90 S  | 107.59 W | 145.51 | 0.20 |
| 2550.00 | 3.33 | 231.83 | 2543.52 | 100.04 S | 109.01 W | 147.33 | 1.01 |
| 2580.00 | 3.05 | 234.97 | 2573.48 | 101.03 S | 110.35 W | 149.00 | 1.10 |
| 2610.00 | 3.15 | 234.29 | 2603.43 | 101.97 S | 111.67 W | 150.62 | 0.35 |
| 2640.00 | 2.84 | 237.48 | 2633.39 | 102.85 S | 112.97 W | 152.18 | 1.17 |

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| 2670.00 | 3.01 | 238.80 | 2663.35 | 103.69 S | 114.26 W | 153.71 | 0.58 |
| 2700.00 | 2.73 | 232.79 | 2693.32 | 104.55 S | 115.49 W | 155.21 | 1.14 |
| 2730.00 | 2.72 | 232.68 | 2723.28 | 105.41 S | 116.62 W | 156.64 | 0.06 |
| 2760.00 | 2.57 | 234.11 | 2753.25 | 106.24 S | 117.73 W | 158.02 | 0.53 |
| 2790.00 | 2.52 | 237.35 | 2783.22 | 106.99 S | 118.83 W | 159.35 | 0.51 |

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| 2820.00 | 2.54 | 238.26 | 2813.19 | 107.70 S | 119.95 W | 160.67 | 0.15 |
| 2850.00 | 2.55 | 239.95 | 2843.16 | 108.38 S | 121.10 W | 162.00 | 0.25 |
| 2880.00 | 2.50 | 241.22 | 2873.13 | 109.03 S | 122.25 W | 163.31 | 0.24 |
| 2910.00 | 2.46 | 241.81 | 2903.10 | 109.65 S | 123.39 W | 164.59 | 0.17 |
| 2940.00 | 2.39 | 240.77 | 2933.08 | 110.26 S | 124.50 W | 165.85 | 0.28 |

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| 2970.00 | 2.35 | 240.38 | 2963.05 | 110.87 S | 125.59 W | 167.08 | 0.14 |
| 3000.00 | 2.18 | 242.16 | 2993.03 | 111.44 S | 126.62 W | 168.25 | 0.62 |
| 3030.00 | 2.14 | 241.54 | 3023.01 | 111.97 S | 127.62 W | 169.36 | 0.14 |
| 3060.00 | 2.11 | 240.49 | 3052.99 | 112.51 S | 128.60 W | 170.47 | 0.16 |
| 3090.00 | 2.13 | 241.45 | 3082.97 | 113.05 S | 129.57 W | 171.57 | 0.12 |

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| 3120.00 | 2.17 | 241.77 | 3112.94 | 113.58 S | 130.56 W | 172.68 | 0.14 |
| 3150.00 | 2.18 | 241.21 | 3142.92 | 114.13 S | 131.55 W | 173.80 | 0.08 |
| 3180.00 | 2.10 | 240.42 | 3172.90 | 114.67 S | 132.53 W | 174.91 | 0.27 |
| 3210.00 | 2.06 | 237.53 | 3202.88 | 115.24 S | 133.47 W | 175.99 | 0.38 |
| 3240.00 | 1.99 | 235.16 | 3232.86 | 115.82 S | 134.35 W | 177.05 | 0.36 |

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| 3270.00 | 1.99 | 234.72 | 3262.85 | 116.42 S | 135.20 W | 178.09 | 0.05 |
| 3300.00 | 1.99 | 235.79 | 3292.83 | 117.02 S | 136.06 W | 179.14 | 0.12 |
| 3330.00 | 1.92 | 235.77 | 3322.81 | 117.59 S | 136.91 W | 180.16 | 0.25 |
| 3360.00 | 1.97 | 235.63 | 3352.79 | 118.17 S | 137.75 W | 181.17 | 0.18 |
| 3390.00 | 1.90 | 237.02 | 3382.78 | 118.73 S | 138.59 W | 182.19 | 0.28 |

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| 3420.00 | 1.98 | 237.92 | 3412.76 | 119.27 S | 139.45 W | 183.20 | 0.29 |
| 3450.00 | 2.19 | 238.04 | 3442.74 | 119.85 S | 140.38 W | 184.29 | 0.69 |
| 3480.00 | 2.33 | 239.63 | 3472.72 | 120.47 S | 141.39 W | 185.46 | 0.51 |
| 3510.00 | 2.40 | 240.31 | 3502.69 | 121.09 S | 142.46 W | 186.69 | 0.25 |
| 3540.00 | 2.72 | 238.05 | 3532.66 | 121.77 S | 143.61 W | 188.02 | 1.12 |

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| 3570.00 | 2.59 | 235.85 | 3562.63 | 122.53 S | 144.78 W | 189.41 | 0.54 |
| 3600.00 | 3.21 | 235.89 | 3592.59 | 123.38 S | 146.03 W | 190.93 | 2.07 |
| 3630.00 | 3.09 | 233.90 | 3622.54 | 124.33 S | 147.38 W | 192.58 | 0.53 |
| 3660.00 | 3.42 | 234.91 | 3652.49 | 125.32 S | 148.77 W | 194.28 | 1.09 |
| 3690.00 | 3.91 | 235.35 | 3682.43 | 126.42 S | 150.34 W | 196.19 | 1.64 |

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| 3720.00 | 4.14 | 234.03 | 3712.36 | 127.63 S | 152.06 W | 198.30 | 0.87 |
| 3750.00 | 4.66 | 234.28 | 3742.27 | 128.98 S | 153.93 W | 200.60 | 1.71 |
| 3780.00 | 4.88 | 234.85 | 3772.17 | 130.42 S | 155.96 W | 203.09 | 0.76 |
| 3810.00 | 5.26 | 233.98 | 3802.05 | 131.97 S | 158.12 W | 205.74 | 1.28 |
| 3840.00 | 5.44 | 234.74 | 3831.92 | 133.60 S | 160.39 W | 208.54 | 0.67 |

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| 3870.00 | 5.55 | 234.54 | 3861.78 | 135.26 S | 162.73 W | 211.41 | 0.37 |
| 3900.00 | 5.72 | 234.44 | 3891.64 | 136.97 S | 165.13 W | 214.35 | 0.55 |
| 3930.00 | 5.87 | 235.81 | 3921.48 | 138.70 S | 167.61 W | 217.38 | 0.69 |
| 3960.00 | 5.96 | 235.64 | 3951.32 | 140.44 S | 170.17 W | 220.46 | 0.31 |
| 3990.00 | 5.92 | 235.10 | 3981.16 | 142.21 S | 172.72 W | 223.57 | 0.24 |

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| 4020.00 | 6.11 | 235.22 | 4011.00 | 144.01 S | 175.34 W | 226.74 | 0.75 |
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|---------|------|--------|---------|----------|----------|--------|------|
| 4020.00 | 6.14 | 235.08 | 4011.00 | 144.01 S | 175.31 W | 226.71 | 0.75 |
| 4050.00 | 6.25 | 235.58 | 4040.82 | 145.85 S | 177.97 W | 229.95 | 0.40 |
| 4080.00 | 6.39 | 236.37 | 4070.64 | 147.70 S | 180.71 W | 233.25 | 0.56 |
| 4110.00 | 6.43 | 236.33 | 4100.45 | 149.55 S | 183.50 W | 236.59 | 0.13 |
| 4140.00 | 6.47 | 236.65 | 4130.26 | 151.41 S | 186.31 W | 239.95 | 0.17 |
| 4170.00 | 6.67 | 236.41 | 4160.06 | 153.31 S | 189.17 W | 243.38 | 0.69 |
| 4200.00 | 6.76 | 236.69 | 4189.88 | 155.24 S | 192.10 W | 246.88 | 0.32 |
| 4230.00 | 6.77 | 236.89 | 4219.65 | 157.18 S | 195.05 W | 250.40 | 0.08 |
| 4260.00 | 6.94 | 237.74 | 4249.44 | 159.11 S | 198.07 W | 253.97 | 0.65 |
| 4290.00 | 6.97 | 238.18 | 4279.21 | 161.04 S | 201.15 W | 257.59 | 0.20 |
| 4320.00 | 7.07 | 238.50 | 4308.99 | 162.96 S | 204.27 W | 261.24 | 0.38 |
| 4350.00 | 6.90 | 239.31 | 4338.77 | 164.85 S | 207.39 W | 264.86 | 0.68 |
| 4380.00 | 6.80 | 239.67 | 4368.55 | 166.66 S | 210.47 W | 268.42 | 0.34 |
| 4410.00 | 6.49 | 239.59 | 4398.35 | 168.42 S | 213.47 W | 271.86 | 1.04 |
| 4440.00 | 6.53 | 240.32 | 4428.16 | 170.12 S | 216.41 W | 275.24 | 0.30 |
| 4470.00 | 6.51 | 240.31 | 4457.96 | 171.81 S | 219.37 W | 278.61 | 0.08 |
| 4500.00 | 6.52 | 240.26 | 4487.77 | 173.49 S | 222.33 W | 281.99 | 0.05 |
| 4530.00 | 6.46 | 240.24 | 4517.58 | 175.18 S | 225.27 W | 285.35 | 0.20 |
| 4560.00 | 6.22 | 239.90 | 4547.39 | 176.83 S | 228.14 W | 288.63 | 0.83 |
| 4590.00 | 5.92 | 239.84 | 4577.23 | 178.42 S | 230.88 W | 291.78 | 1.00 |
| 4620.00 | 5.82 | 239.53 | 4607.07 | 179.97 S | 233.53 W | 294.82 | 0.33 |
| 4650.00 | 5.56 | 238.81 | 4636.92 | 181.49 S | 236.09 W | 297.78 | 0.89 |
| 4680.00 | 5.49 | 238.19 | 4666.78 | 183.00 S | 238.55 W | 300.66 | 0.32 |
| 4710.00 | 5.40 | 236.82 | 4696.65 | 184.53 S | 240.95 W | 303.49 | 0.52 |
| 4740.00 | 5.43 | 237.00 | 4726.51 | 186.08 S | 243.32 W | 306.32 | 0.10 |
| 4770.00 | 5.15 | 237.31 | 4756.38 | 187.58 S | 245.65 W | 309.07 | 0.92 |
| 4800.00 | 5.13 | 237.57 | 4786.26 | 189.02 S | 247.91 W | 311.75 | 0.11 |
| 4830.00 | 4.96 | 238.10 | 4816.15 | 190.43 S | 250.15 W | 314.38 | 0.60 |
| 4860.00 | 4.98 | 237.28 | 4846.04 | 191.82 S | 252.34 W | 316.97 | 0.25 |
| 4890.00 | 5.16 | 236.83 | 4875.92 | 193.26 S | 254.57 W | 319.61 | 0.62 |
| 4920.00 | 4.95 | 235.29 | 4905.80 | 194.74 S | 256.76 W | 322.26 | 0.84 |
| 4950.00 | 5.02 | 236.33 | 4935.69 | 196.20 S | 258.92 W | 324.86 | 0.38 |
| 4980.00 | 4.84 | 235.65 | 4965.58 | 197.64 S | 261.06 W | 327.44 | 0.64 |
| 5010.00 | 4.69 | 237.54 | 4995.47 | 199.02 S | 263.14 W | 329.92 | 0.72 |
| 5040.00 | 4.61 | 235.57 | 5025.37 | 200.36 S | 265.17 W | 332.35 | 0.60 |
| 5070.00 | 4.70 | 236.15 | 5055.27 | 201.72 S | 267.18 W | 334.78 | 0.33 |
| 5100.00 | 4.51 | 235.41 | 5085.18 | 203.08 S | 269.17 W | 337.18 | 0.66 |
| 5130.00 | 4.06 | 235.41 | 5115.09 | 204.35 S | 271.02 W | 339.42 | 1.49 |
| 5160.00 | 3.96 | 234.48 | 5145.02 | 205.55 S | 272.74 W | 341.52 | 0.40 |
| 5190.00 | 3.96 | 234.34 | 5174.95 | 206.76 S | 274.42 W | 343.69 | 0.03 |
| 5220.00 | 3.74 | 233.53 | 5204.88 | 207.95 S | 276.05 W | 345.60 | 0.74 |
| 5250.00 | 3.76 | 233.09 | 5234.82 | 209.12 S | 277.62 W | 347.56 | 0.11 |
| 5280.00 | 3.65 | 232.06 | 5264.75 | 210.29 S | 279.16 W | 349.50 | 0.43 |
| 5310.00 | 3.62 | 230.73 | 5294.69 | 211.48 S | 280.65 W | 351.40 | 0.30 |
| 5340.00 | 3.51 | 230.56 | 5324.64 | 212.66 S | 282.09 W | 353.27 | 0.37 |
| 5370.00 | 3.46 | 229.80 | 5354.58 | 213.83 S | 283.49 W | 355.09 | 0.24 |
| 5400.00 | 3.35 | 230.30 | 5384.53 | 214.98 S | 284.86 W | 356.87 | 0.36 |
| 5430.00 | 3.36 | 230.06 | 5414.48 | 216.10 S | 286.20 W | 358.62 | 0.05 |
| 5460.00 | 3.31 | 230.16 | 5444.43 | 217.22 S | 287.54 W | 360.37 | 0.18 |
| 5490.00 | 3.37 | 228.59 | 5474.37 | 218.36 S | 288.87 W | 362.11 | 0.38 |
| 5520.00 | 3.38 | 229.54 | 5504.32 | 219.51 S | 290.20 W | 363.87 | 0.19 |
| 5550.00 | 3.43 | 230.03 | 5534.27 | 220.66 S | 291.56 W | 365.65 | 0.20 |
| 5580.00 | 3.41 | 229.53 | 5564.22 | 221.82 S | 292.93 W | 367.44 | 0.12 |
| 5610.00 | 3.27 | 230.16 | 5594.17 | 222.95 S | 294.26 W | 369.18 | 0.48 |
| 5640.00 | 3.20 | 229.92 | 5624.12 | 224.03 S | 295.56 W | 370.87 | 0.23 |
| 5670.00 | 3.25 | 229.99 | 5654.07 | 225.12 S | 296.85 W | 372.56 | 0.16 |
| 5700.00 | 3.15 | 230.82 | 5684.02 | 226.19 S | 298.14 W | 374.23 | 0.38 |
| 5730.00 | 3.13 | 230.40 | 5713.98 | 227.23 S | 299.41 W | 375.87 | 0.10 |
| 5760.00 | 3.31 | 230.70 | 5743.93 | 228.30 S | 300.71 W | 377.55 | 0.61 |
| 5790.00 | 3.27 | 231.76 | 5773.88 | 229.38 S | 302.05 W | 379.27 | 0.23 |
| 5820.00 | 3.08 | 230.92 | 5803.84 | 230.41 S | 303.35 W | 380.94 | 0.66 |
| 5850.00 | 3.18 | 229.87 | 5833.79 | 231.46 S | 304.62 W | 382.58 | 0.37 |
| 5880.00 | 3.16 | 229.69 | 5863.74 | 232.53 S | 305.88 W | 384.23 | 0.06 |
| 5910.00 | 2.98 | 228.80 | 5893.70 | 233.58 S | 307.10 W | 385.84 | 0.63 |

6048 70

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT  
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD  
VERTICAL SECTION IS COMPUTED ALONG A CLOSURE OF 232.74 DEGREES (GRID)  
A TOTAL CORRECTION OF 0.00 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD  
HORIZONTAL DISPLACEMENT(CLOSURE) AT 5910.00 FEET  
IS 385.94 FEET ALONG 232.74 DEGREES (GRID)

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