

GyroTracer Directional:

Date: 4/9/2018
 Operator : Brandon McKnight
 API : 05-123-22857
 Well Name : **Hardesty I 10-4**
 Field : SRC Energy
 Tool Type And Number: 1609
 Bottom Depth : 7300.00
 Latitude : 40.5083 N
 Longitude : 104.770676 W

**Starting Point Coordinates (in local grid):**

Northing: 0.00 Easting: 0.00 Altitude: 4868.00

Description:

Azimuth measured in degrees and referenced to True North

Inclination measured from Vertical

Length measured in US survey feet

Start Time: 4/9/2018 10:43

End Time: 4/9/2018 12:09

| Depth | Inclination | Azimuth | Closure Direction | True Depth | Coordinates | | Dogleg Severity | Closure Distance |
|----------|-------------|---------|----------------------|------------|-------------|---------|--------------------|---------------------|
| | | | | | +N/-S | +E/-W | | |
| 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.780 | 0.600 | 117.271 | 162.937 | 100.780 | -1.010 | 0.310 | 0.595 | 1.057 |
| 200.000 | 0.356 | 119.460 | 145.584 | 199.997 | -1.354 | 0.927 | 0.247 | 1.641 |
| 300.000 | 0.142 | 30.240 | 144.771 | 299.996 | -1.572 | 1.110 | 0.321 | 1.925 |
| 400.000 | 0.120 | 252.323 | 147.765 | 399.996 | -1.701 | 1.073 | 0.128 | 2.011 |
| 500.000 | 0.260 | 325.051 | 148.706 | 499.993 | -1.143 | 0.695 | 0.227 | 1.338 |
| 600.000 | 0.394 | 332.087 | 144.762 | 599.989 | -0.435 | 0.307 | 0.248 | 0.533 |
| 700.000 | 0.432 | 336.642 | 345.953 | 699.985 | 0.343 | -0.086 | 0.075 | 0.354 |
| 800.000 | 1.011 | 54.974 | 339.938 | 799.980 | 1.120 | -0.409 | 1.007 | 1.192 |
| 900.000 | 0.476 | 344.849 | 340.746 | 899.975 | 1.948 | -0.681 | 0.265 | 2.064 |
| 1000.000 | 0.623 | 327.715 | 339.151 | 999.970 | 2.841 | -1.082 | 0.185 | 3.040 |
| 1100.000 | 0.535 | 320.009 | 337.614 | 1099.964 | 3.798 | -1.564 | 0.228 | 4.108 |
| 1200.000 | 0.652 | 329.304 | 335.267 | 1199.956 | 4.653 | -2.143 | 0.049 | 5.123 |
| 1300.000 | 0.653 | 311.262 | 333.525 | 1299.947 | 5.428 | -2.703 | 0.178 | 6.064 |
| 1400.000 | 0.940 | 321.495 | 330.299 | 1399.940 | 6.205 | -3.540 | 0.345 | 7.144 |
| 1500.000 | 0.692 | 311.113 | 327.554 | 1499.934 | 6.934 | -4.408 | 0.203 | 8.216 |
| 1600.000 | 0.497 | 307.264 | 325.883 | 1599.927 | 7.722 | -5.232 | 0.177 | 9.327 |
| 1700.000 | 0.759 | 321.316 | 324.543 | 1699.920 | 8.506 | -6.057 | 0.082 | 10.442 |
| 1800.000 | 0.747 | 310.461 | 323.740 | 1799.913 | 9.317 | -6.834 | 0.158 | 11.555 |
| 1900.000 | 0.792 | 303.822 | 322.562 | 1899.906 | 10.105 | -7.736 | 0.153 | 12.727 |
| 2000.000 | 0.970 | 291.727 | 320.097 | 1999.896 | 10.755 | -8.993 | 0.279 | 14.020 |
| 2100.000 | 0.950 | 277.468 | 316.618 | 2099.881 | 11.214 | -10.598 | 0.268 | 15.429 |
| 2200.000 | 0.542 | 272.551 | 313.433 | 2199.868 | 11.548 | -12.197 | 0.475 | 16.797 |
| 2300.000 | 0.613 | 298.160 | 312.542 | 2299.861 | 12.074 | -13.157 | 0.412 | 17.858 |
| 2400.000 | 0.531 | 297.792 | 312.163 | 2399.857 | 12.610 | -13.925 | 0.318 | 18.787 |
| 2500.000 | 0.763 | 301.146 | 311.896 | 2499.853 | 13.128 | -14.634 | 0.266 | 19.659 |

| | | | | | | | | |
|----------|-------|---------|---------|----------|--------|---------|-------|--------|
| 2600.000 | 0.289 | 297.915 | 310.983 | 2599.848 | 13.444 | -15.476 | 0.279 | 20.500 |
| 2700.000 | 0.715 | 265.718 | 309.735 | 2699.844 | 13.599 | -16.360 | 0.445 | 21.274 |
| 2800.000 | 0.556 | 296.519 | 308.616 | 2799.840 | 13.795 | -17.271 | 0.251 | 22.104 |
| 2900.000 | 0.825 | 287.482 | 307.658 | 2899.834 | 14.124 | -18.302 | 0.226 | 23.118 |
| 3000.000 | 0.942 | 272.020 | 306.574 | 2999.827 | 14.388 | -19.391 | 0.356 | 24.146 |
| 3100.000 | 0.536 | 215.364 | 304.746 | 3099.823 | 13.903 | -20.044 | 0.472 | 24.394 |
| 3200.000 | 0.501 | 196.629 | 302.076 | 3199.816 | 12.769 | -20.374 | 0.240 | 24.045 |
| 3300.000 | 0.930 | 199.340 | 298.979 | 3299.807 | 11.506 | -20.775 | 0.358 | 23.749 |
| 3400.000 | 0.777 | 188.767 | 295.722 | 3399.798 | 10.242 | -21.261 | 0.191 | 23.599 |
| 3500.000 | 0.347 | 224.845 | 293.422 | 3499.792 | 9.435 | -21.781 | 0.457 | 23.737 |
| 3600.000 | 1.127 | 199.745 | 290.363 | 3599.783 | 8.310 | -22.390 | 0.749 | 23.883 |
| 3700.000 | 1.010 | 172.272 | 286.041 | 3699.767 | 6.549 | -22.776 | 0.532 | 23.699 |
| 3800.000 | 0.833 | 173.420 | 282.796 | 3799.755 | 5.093 | -22.425 | 0.032 | 22.997 |
| 3900.000 | 0.922 | 170.695 | 279.362 | 3899.744 | 3.633 | -22.038 | 0.167 | 22.335 |
| 4000.000 | 1.115 | 170.992 | 274.773 | 3999.727 | 1.823 | -21.830 | 0.162 | 21.906 |
| 4100.000 | 1.084 | 185.087 | 269.686 | 4099.707 | -0.120 | -21.919 | 0.293 | 21.920 |
| 4200.000 | 1.041 | 183.647 | 264.604 | 4199.687 | -2.100 | -22.231 | 0.279 | 22.330 |
| 4300.000 | 0.517 | 196.424 | 261.389 | 4299.677 | -3.391 | -22.394 | 0.743 | 22.649 |
| 4400.000 | 0.796 | 284.117 | 261.011 | 4399.672 | -3.670 | -23.200 | 0.951 | 23.489 |
| 4500.000 | 1.030 | 298.264 | 262.850 | 4499.659 | -3.100 | -24.710 | 0.283 | 24.904 |
| 4600.000 | 1.516 | 293.966 | 265.378 | 4599.635 | -2.155 | -26.655 | 0.344 | 26.742 |
| 4700.000 | 1.591 | 303.110 | 268.137 | 4699.599 | -0.943 | -28.997 | 0.285 | 29.012 |
| 4800.000 | 1.289 | 317.798 | 270.906 | 4799.568 | 0.491 | -31.025 | 0.590 | 31.029 |
| 4900.000 | 1.473 | 305.869 | 273.669 | 4899.537 | 2.110 | -32.901 | 0.327 | 32.969 |
| 5000.000 | 1.448 | 271.269 | 274.021 | 4999.504 | 2.487 | -35.385 | 0.803 | 35.472 |
| 5100.000 | 1.652 | 276.801 | 273.970 | 5099.471 | 2.632 | -37.930 | 0.173 | 38.021 |
| 5200.000 | 1.229 | 273.426 | 273.780 | 5199.443 | 2.660 | -40.257 | 0.111 | 40.344 |
| 5300.000 | 1.185 | 272.251 | 273.813 | 5299.421 | 2.822 | -42.334 | 0.067 | 42.428 |
| 5400.000 | 1.227 | 264.882 | 274.171 | 5399.399 | 3.235 | -44.365 | 0.171 | 44.483 |
| 5500.000 | 1.203 | 283.992 | 274.453 | 5499.375 | 3.622 | -46.504 | 0.241 | 46.645 |
| 5600.000 | 1.592 | 252.930 | 274.068 | 5599.351 | 3.463 | -48.690 | 0.973 | 48.813 |
| 5700.000 | 1.354 | 261.338 | 273.439 | 5699.322 | 3.067 | -51.039 | 0.148 | 51.131 |
| 5800.000 | 1.298 | 281.999 | 273.063 | 5799.293 | 2.858 | -53.414 | 0.532 | 53.490 |
| 5900.000 | 0.455 | 258.588 | 272.840 | 5899.281 | 2.722 | -54.867 | 0.729 | 54.935 |
| 6000.000 | 0.181 | 176.296 | 272.537 | 5999.280 | 2.441 | -55.103 | 0.466 | 55.157 |
| 6100.000 | 0.283 | 123.822 | 272.402 | 6099.279 | 2.299 | -54.811 | 0.255 | 54.860 |
| 6200.000 | 0.432 | 68.248 | 272.470 | 6199.276 | 2.342 | -54.310 | 0.243 | 54.360 |
| 6300.000 | 0.338 | 85.997 | 272.784 | 6299.273 | 2.608 | -53.643 | 0.244 | 53.706 |
| 6400.000 | 0.696 | 37.750 | 273.467 | 6399.268 | 3.209 | -52.958 | 0.514 | 53.055 |
| 6500.000 | 0.395 | 41.052 | 274.450 | 6499.262 | 4.073 | -52.342 | 0.252 | 52.501 |
| 6600.000 | 0.133 | 156.863 | 274.959 | 6599.260 | 4.530 | -52.213 | 0.602 | 52.409 |
| 6700.000 | 0.460 | 267.909 | 274.998 | 6699.259 | 4.597 | -52.561 | 0.370 | 52.762 |
| 6800.000 | 0.492 | 273.534 | 274.855 | 6799.257 | 4.500 | -52.979 | 0.187 | 53.170 |
| 6900.000 | 0.385 | 253.207 | 274.675 | 6899.255 | 4.377 | -53.520 | 0.201 | 53.698 |
| 7000.000 | 0.470 | 277.920 | 274.256 | 6999.251 | 4.036 | -54.234 | 0.224 | 54.384 |
| 7100.000 | 0.506 | 280.905 | 273.981 | 7099.247 | 3.827 | -54.987 | 0.069 | 55.120 |
| 7200.000 | 0.275 | 259.306 | 273.801 | 7199.244 | 3.699 | -55.677 | 0.309 | 55.800 |
| 7300.000 | 0.460 | 287.540 | 273.943 | 7299.241 | 3.885 | -56.372 | 0.215 | 56.506 |

