

# **TREY RESOURCES INC.**

**Shafter Lake**

**Andrews County, Texas**

**University Block 14 cons. #1917H**

**VH - Job #32K0312341**

**Survey: Gyro**

## **SDI Standard Survey Report**





# Scientific Drilling

Scientific Drilling International, Inc.

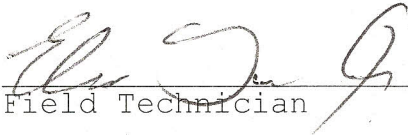
2034 Trade Drive • Midland, Texas 79706

P. O. Box 9699 • Midland, Texas 79708

Tel: 432-689-5600 • Fax: 432-697-0324

State of Texas  
County of Midland

I, Eliseo Garza, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 03/23/12 through 03/24/12 conduct or supervise the taking of a Keeper Gyro survey from a depth of 0 feet to a depth of 4891 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of Trey Resources INC. for the University Block 14 Cons. #1917H Well, API# 42-003 43918 in Andrews County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.

  
\_\_\_\_\_  
Field Technician

# Scientific Drilling International, Inc.

## SDI Standard Survey Report



|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | TREY RESOURCES INC.              | <b>Local Co-ordinate Reference:</b> | Well University Block 14 cons. #1917H |
| <b>Project:</b>  | Shafter Lake                     | <b>TVD Reference:</b>               | GL @ 3220.00usft (Original Well Elev) |
| <b>Site:</b>     | Andrews County, Texas            | <b>MD Reference:</b>                | GL @ 3220.00usft (Original Well Elev) |
| <b>Well:</b>     | University Block 14 cons. #1917H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | VH - Job #32K0312341             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | VH - Job #32K0312341             | <b>Database:</b>                    | EDM-Regulatory                        |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Shafter Lake                         |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | Texas Central 4203                   |                      |                |

|                              |                       |                     |                   |                          |                   |
|------------------------------|-----------------------|---------------------|-------------------|--------------------------|-------------------|
| <b>Site</b>                  | Andrews County, Texas |                     |                   |                          |                   |
| <b>Site Position:</b>        |                       | <b>Northing:</b>    | 1,012,315.66 usft | <b>Latitude:</b>         | 32° 25' 43.255 N  |
| <b>From:</b>                 | Lat/Long              | <b>Easting:</b>     | 1,273,089.69 usft | <b>Longitude:</b>        | 102° 41' 19.614 W |
| <b>Position Uncertainty:</b> | 0.00 usft             | <b>Slot Radius:</b> | 13-3/16"          | <b>Grid Convergence:</b> | -1.21 °           |

|                             |  |           |                            |                   |                      |                   |
|-----------------------------|--|-----------|----------------------------|-------------------|----------------------|-------------------|
| <b>Well</b>                 | University Block 14 cons. #1917H, Directional (Cudd) |           |                            |                   |                      |                   |
| <b>Well Position</b>        | <b>+N/-S</b>   | 0.00 usft | <b>Northing:</b>           | 1,012,315.65 usft | <b>Latitude:</b>     | 32° 25' 43.255 N  |
|                             | <b>+E/-W</b>   | 0.00 usft | <b>Easting:</b>            | 1,273,089.69 usft | <b>Longitude:</b>    | 102° 41' 19.614 W |
| <b>Position Uncertainty</b> |  | 0.00 usft | <b>Wellhead Elevation:</b> | usft              | <b>Ground Level:</b> | 0.00 usft         |

|                  |                      |                    |                        |                      |                            |
|------------------|----------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | VH - Job #32K0312341 |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>    | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010             | 03/23/12           | 7.09                   | 60.51                | 48,759                     |

|                          |                                |                     |                     |                      |      |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| <b>Design</b>            | VH - Job #32K0312341           |                     |                     |                      |      |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                           | 0.00                | 0.00                | 76.65                |      |

|                       |                  |                             |                  |                    |  |
|-----------------------|------------------|-----------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>      | 04/23/12                    |                  |                    |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>    | <b>Tool Name</b> | <b>Description</b> |  |
| 100.00                | 4,891.00         | Gyro (VH - Job #32K0312341) | Keeper           | Keeper Gyro        |  |

|                              |                        |                    |                            |                           |                         |                            |                                |      |      |
|------------------------------|------------------------|--------------------|----------------------------|---------------------------|-------------------------|----------------------------|--------------------------------|------|------|
| <b>Survey</b>                |                        |                    |                            |                           |                         |                            |                                |      |      |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>True Vertical Depth</b> | <b>North/South (usft)</b> | <b>East/West (usft)</b> | <b>Closure Azimuth (°)</b> | <b>Closure Distance (usft)</b> |      |      |
| 0.00                         | 0.00                   | 0.00               | 0.00                       | 0.00                      | 0.00                    | 0.00                       | 0.00                           | 0.00 | 0.00 |
| 100.00                       | 0.77                   | 337.33             | 100.00                     | 0.62                      | -0.26                   | 337.33                     | 0.67                           |      |      |
| 200.00                       | 0.76                   | 337.71             | 199.99                     | 1.85                      | -0.77                   | 337.46                     | 2.01                           |      |      |
| 300.00                       | 0.57                   | 353.26             | 299.98                     | 2.96                      | -1.08                   | 339.97                     | 3.15                           |      |      |
| 400.00                       | 0.33                   | 17.61              | 399.98                     | 3.73                      | -1.05                   | 344.27                     | 3.87                           |      |      |
| 500.00                       | 0.34                   | 12.69              | 499.98                     | 4.29                      | -0.90                   | 348.18                     | 4.39                           |      |      |
| 600.00                       | 0.34                   | 26.71              | 599.97                     | 4.85                      | -0.70                   | 351.79                     | 4.90                           |      |      |
| 700.00                       | 0.62                   | 48.53              | 699.97                     | 5.47                      | -0.16                   | 358.31                     | 5.47                           |      |      |
| 800.00                       | 0.62                   | 45.48              | 799.97                     | 6.21                      | 0.63                    | 5.79                       | 6.24                           |      |      |
| 900.00                       | 0.65                   | 48.99              | 899.96                     | 6.96                      | 1.44                    | 11.72                      | 7.11                           |      |      |
| 1,000.00                     | 0.68                   | 65.65              | 999.95                     | 7.58                      | 2.41                    | 17.66                      | 7.95                           |      |      |
| 1,100.00                     | 0.57                   | 77.70              | 1,099.95                   | 7.93                      | 3.44                    | 23.45                      | 8.64                           |      |      |

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
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| <b>Project:</b>  | Shafter Lake                     | <b>TVD Reference:</b>               | GL @ 3220.00usft (Original Well Elev) |
| <b>Site:</b>     | Andrews County, Texas            | <b>MD Reference:</b>                | GL @ 3220.00usft (Original Well Elev) |
| <b>Well:</b>     | University Block 14 cons. #1917H | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | VH - Job #32K0312341             | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | VH - Job #32K0312341             | <b>Database:</b>                    | EDM-Regulatory                        |

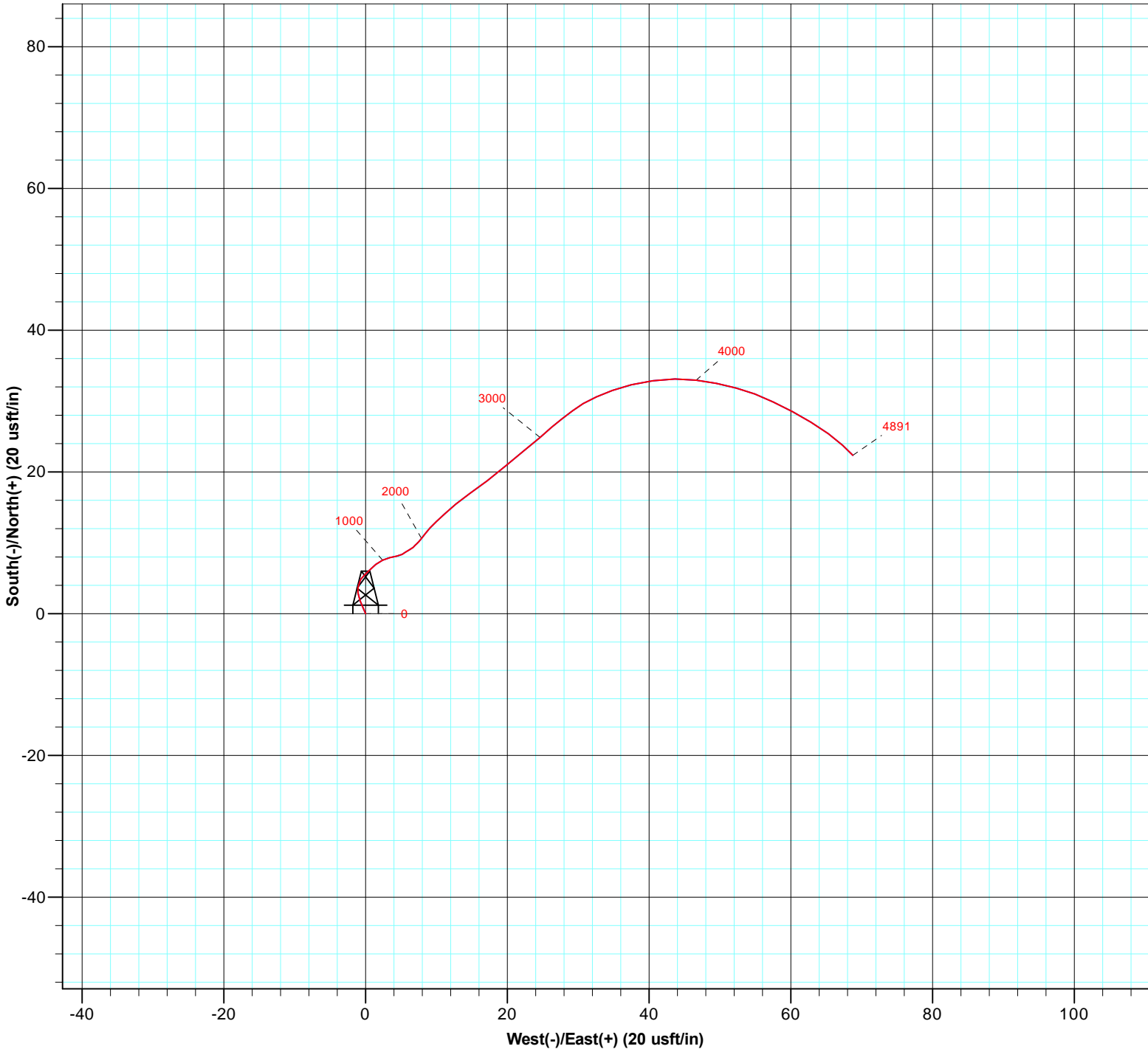
| Survey                |                 |             |                     |                    |                  |                     |                         |
|-----------------------|-----------------|-------------|---------------------|--------------------|------------------|---------------------|-------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | True Vertical Depth | North/South (usft) | East/West (usft) | Closure Azimuth (°) | Closure Distance (usft) |
| 1,200.00              | 0.53            | 77.19       | 1,199.94            | 8.14               | 4.38             | 28.27               | 9.24                    |
| 1,300.00              | 0.42            | 65.35       | 1,299.94            | 8.39               | 5.16             | 31.59               | 9.85                    |
| 1,400.00              | 0.26            | 45.82       | 1,399.94            | 8.70               | 5.66             | 33.02               | 10.38                   |
| 1,500.00              | 0.46            | 65.51       | 1,499.93            | 9.03               | 6.18             | 34.41               | 10.94                   |
| 1,600.00              | 0.27            | 42.31       | 1,599.93            | 9.37               | 6.71             | 35.60               | 11.52                   |
| 1,700.00              | 0.19            | 43.58       | 1,699.93            | 9.66               | 6.98             | 35.85               | 11.92                   |
| 1,800.00              | 0.16            | 54.83       | 1,799.93            | 9.86               | 7.21             | 36.16               | 12.22                   |
| 1,900.00              | 0.29            | 37.98       | 1,899.93            | 10.14              | 7.48             | 36.40               | 12.60                   |
| 2,000.00              | 0.43            | 40.16       | 1,999.93            | 10.63              | 7.88             | 36.54               | 13.23                   |
| 2,100.00              | 0.59            | 38.50       | 2,099.92            | 11.32              | 8.44             | 36.71               | 14.12                   |
| 2,200.00              | 0.58            | 41.37       | 2,199.92            | 12.10              | 9.09             | 36.92               | 15.14                   |
| 2,300.00              | 0.88            | 46.22       | 2,299.91            | 13.01              | 9.98             | 37.49               | 16.40                   |
| 2,400.00              | 1.11            | 48.94       | 2,399.90            | 14.18              | 11.27            | 38.47               | 18.11                   |
| 2,500.00              | 1.16            | 47.88       | 2,499.88            | 15.50              | 12.75            | 39.45               | 20.07                   |
| 2,600.00              | 1.64            | 56.10       | 2,599.85            | 16.97              | 14.69            | 40.87               | 22.45                   |
| 2,700.00              | 1.84            | 52.74       | 2,699.80            | 18.74              | 17.15            | 42.46               | 25.41                   |
| 2,800.00              | 1.98            | 49.24       | 2,799.74            | 20.84              | 19.74            | 43.44               | 28.71                   |
| 2,900.00              | 1.97            | 51.31       | 2,899.69            | 23.04              | 22.39            | 44.17               | 32.13                   |
| 3,000.00              | 1.36            | 49.14       | 2,999.64            | 24.90              | 24.63            | 44.69               | 35.02                   |
| 3,100.00              | 1.10            | 49.22       | 3,099.62            | 26.30              | 26.25            | 44.95               | 37.16                   |
| 3,200.00              | 1.08            | 52.12       | 3,199.60            | 27.50              | 27.72            | 45.23               | 39.05                   |
| 3,300.00              | 1.03            | 52.04       | 3,299.58            | 28.64              | 29.18            | 45.54               | 40.88                   |
| 3,400.00              | 1.09            | 59.61       | 3,399.57            | 29.67              | 30.71            | 45.98               | 42.70                   |
| 3,500.00              | 1.33            | 66.52       | 3,499.55            | 30.61              | 32.59            | 46.79               | 44.71                   |
| 3,600.00              | 1.43            | 69.43       | 3,599.52            | 31.51              | 34.82            | 47.86               | 46.97                   |
| 3,700.00              | 1.77            | 76.71       | 3,699.48            | 32.31              | 37.49            | 49.25               | 49.49                   |
| 3,800.00              | 1.80            | 81.43       | 3,799.43            | 32.90              | 40.55            | 50.95               | 52.22                   |
| 3,900.00              | 1.80            | 89.83       | 3,899.38            | 33.14              | 43.67            | 52.81               | 54.82                   |
| 4,000.00              | 1.61            | 97.04       | 3,999.34            | 32.97              | 46.64            | 54.74               | 57.11                   |
| 4,100.00              | 1.69            | 101.15      | 4,099.29            | 32.51              | 49.48            | 56.69               | 59.20                   |
| 4,200.00              | 1.63            | 105.05      | 4,199.25            | 31.86              | 52.30            | 58.65               | 61.24                   |
| 4,300.00              | 1.54            | 110.72      | 4,299.21            | 31.01              | 54.93            | 60.55               | 63.08                   |
| 4,400.00              | 1.71            | 115.47      | 4,399.17            | 29.89              | 57.53            | 62.54               | 64.84                   |
| 4,500.00              | 1.75            | 118.67      | 4,499.13            | 28.52              | 60.22            | 64.66               | 66.63                   |
| 4,600.00              | 1.72            | 120.52      | 4,599.08            | 27.03              | 62.85            | 66.73               | 68.42                   |
| 4,700.00              | 1.63            | 127.13      | 4,699.04            | 25.41              | 65.28            | 68.74               | 70.05                   |
| 4,800.00              | 1.37            | 130.62      | 4,799.01            | 23.77              | 67.32            | 70.55               | 71.39                   |
| 4,891.00              | 1.18            | 138.28      | 4,889.98            | 22.36              | 68.77            | 71.99               | 72.31                   |



**WELL DETAILS: University Block 14 cons. #1917H**

Ground Level: 0.00

| +N/-S | +E/-W | Northing   | Easting    | Latitude         | Longitude         | Slot |
|-------|-------|------------|------------|------------------|-------------------|------|
| 0.00  | 0.00  | 1012315.65 | 1273089.69 | 32° 25' 43.255 N | 102° 41' 19.614 W |      |



**Project:** Shafter Lake  
**Site:** Andrews County, Texas  
**Well:** University Block 14 cons. #1917H  
**Wellbore:** VH - Job #32K0312341  
**Design:** VH - Job #32K0312341

**SITE DETAILS:** Andrews County, Texas  
**Site Centre Latitude:** 32° 25' 43.255 N  
**Longitude:** 102° 41' 19.614 W

**Positional Uncertainty:** 0.00  
**Convergence:** -1.21  
**Local North:** Grid