

# DEVON ENERGY

Wildcat (Chaves County, NM)

Chaves County, NM

Loving "7" Fee #1H

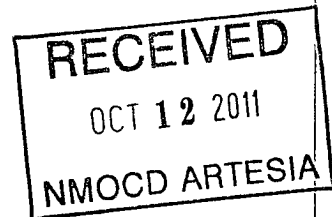
VH - Job #32K0910671

30-005-64129

Survey: Actual

## SDI Standard Survey Report

13 September, 2010



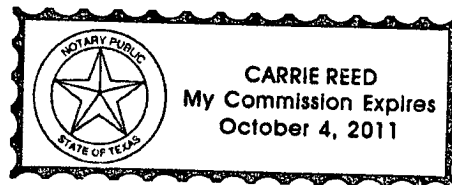
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notorized this date 5th of October, 2010.

[Signature]

Notary Signature  
County of Midland  
State of Texas



**Scientific Drilling International, Inc.**  
SDI Standard Survey Report

|                  |                             |                                     |                                     |
|------------------|-----------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | DEVON ENERGY                | <b>Local Co-ordinate Reference:</b> | Well Loving "7" Fee #1H             |
| <b>Project:</b>  | Wildcat (Chaves County, NM) | <b>TVD Reference:</b>               | WELL @ 0.0usft (Original Well Elev) |
| <b>Site:</b>     | Chaves County, NM           | <b>MD Reference:</b>                | WELL @ 0.0usft (Original Well Elev) |
| <b>Well:</b>     | Loving "7" Fee #1H          | <b>North Reference:</b>             | Grid                                |
| <b>Wellbore:</b> | VH - Job #32K0910671        | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | VH - Job #32K0910671        | <b>Database:</b>                    | EDM-Regulatory                      |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Wildcat (Chaves County, NM)          |                      |                |
| <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>   | New Mexico East 3001                 |                      |                |

|                             |                                        |          |                            |                 |                                    |
|-----------------------------|----------------------------------------|----------|----------------------------|-----------------|------------------------------------|
| <b>Well</b>                 | Loving "7" Fee #1H, Directional (CUDD) |          |                            |                 |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>                           | 0.0 usft | <b>Northing:</b>           | 895,355.27 usft | <b>Latitude:</b> 33° 27' 39.348 N  |
|                             | <b>+E/-W</b>                           | 0.0 usft | <b>Easting:</b>            | 595,224.55 usft | <b>Longitude:</b> 104° 1' 15.964 W |
| <b>Position Uncertainty</b> |                                        | 0.0 usft | <b>Wellhead Elevation:</b> | usft            | <b>Ground Level:</b> 0.0 usft      |

|                 |                      |  |  |  |  |
|-----------------|----------------------|--|--|--|--|
| <b>Wellbore</b> | VH - Job #32K0910671 |  |  |  |  |
|-----------------|----------------------|--|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | BGGM2010   | 9/13/2010   | 8.05            | 61.28         | 49,448              |

|               |                      |  |  |  |  |
|---------------|----------------------|--|--|--|--|
| <b>Design</b> | VH - Job #32K0910671 |  |  |  |  |
|---------------|----------------------|--|--|--|--|

|                          |                         |               |              |                      |     |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| <b>Audit Notes:</b>      |                         |               |              |                      |     |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |     |
|                          | (usft)                  | (usft)        | (usft)       | (°)                  |     |
|                          | 0.0                     | 0.0           | 0.0          | 89.84                |     |

| <b>Survey Program</b> | <b>Date</b> 9/13/2010 |                               |           |             |  |
|-----------------------|-----------------------|-------------------------------|-----------|-------------|--|
| From (usft)           | To (usft)             | Survey (Wellbore)             | Tool Name | Description |  |
| 100.0                 | 5,230.0               | Actual (VH - Job #32K0910671) | Keeper    | Keeper Gyro |  |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | True Vertical Depth | North/South (usft) | East/West (usft) | Closure Azimuth (°) | Closure Distance (usft) |
|-----------------------|-----------------|-------------|---------------------|--------------------|------------------|---------------------|-------------------------|
| 0.0                   | 0.00            | 0.00        | 0.0                 | 0.0                | 0.0              | 0.00                | 0.0                     |
| 100.0                 | 0.78            | 172.51      | 100.0               | -0.7               | 0.1              | 172.51              | 0.7                     |
| 200.0                 | 0.80            | 161.96      | 200.0               | -2.0               | 0.4              | 168.94              | 2.1                     |
| 300.0                 | 0.59            | 153.57      | 300.0               | -3.1               | 0.8              | 165.03              | 3.2                     |
| 400.0                 | 0.78            | 166.41      | 400.0               | -4.3               | 1.2              | 163.92              | 4.4                     |
| 500.0                 | 0.49            | 160.82      | 500.0               | -5.3               | 1.5              | 163.99              | 5.5                     |
| 600.0                 | 0.65            | 151.63      | 600.0               | -6.2               | 1.9              | 162.71              | 6.5                     |
| 700.0                 | 0.35            | 120.67      | 700.0               | -6.9               | 2.5              | 160.26              | 7.3                     |
| 800.0                 | 0.29            | 146.53      | 800.0               | -7.3               | 2.9              | 158.39              | 7.8                     |
| 900.0                 | 0.32            | 114.64      | 900.0               | -7.6               | 3.3              | 156.68              | 8.3                     |
| 1,000.0               | 0.53            | 111.11      | 1,000.0             | -7.9               | 4.0              | 153.31              | 8.8                     |
| 1,100.0               | 0.39            | 77.12       | 1,099.9             | -8.0               | 4.7              | 149.34              | 9.2                     |
| 1,200.0               | 0.50            | 72.24       | 1,199.9             | -7.7               | 5.5              | 144.80              | 9.5                     |
| 1,300.0               | 0.60            | 89.95       | 1,299.9             | -7.6               | 6.4              | 139.93              | 9.9                     |
| 1,400.0               | 0.71            | 53.91       | 1,399.9             | -7.2               | 7.4              | 134.29              | 10.4                    |
| 1,500.0               | 0.81            | 44.28       | 1,499.9             | -6.4               | 8.4              | 127.12              | 10.6                    |
| 1,600.0               | 0.64            | 42.19       | 1,599.9             | -5.5               | 9.3              | 120.42              | 10.8                    |

# Scientific Drilling International, Inc.

## SDI Standard Survey Report

|                  |                             |                                     |                                     |
|------------------|-----------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | DEVON ENERGY                | <b>Local Co-ordinate Reference:</b> | Well Loving "7" Fee #1H             |
| <b>Project:</b>  | Wildcat (Chaves County, NM) | <b>TVD Reference:</b>               | WELL @ 0 0usft (Original Well Elev) |
| <b>Site:</b>     | Chaves County, NM           | <b>MD Reference:</b>                | WELL @ 0 0usft (Original Well Elev) |
| <b>Well:</b>     | Loving "7" Fee #1H          | <b>North Reference:</b>             | Grd                                 |
| <b>Wellbore:</b> | VH - Job #32K0910671        | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | VH - Job #32K0910671        | <b>Database:</b>                    | EDM-Regulatory                      |

### Survey

| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| 1,700.0                  | 0.77               | 60.90          | 1,699.9                | -4.7                  | 10.3                | 114.69                 | 11.3                       |
| 1,800.0                  | 1.00               | 338.26         | 1,799.9                | -3.6                  | 10.5                | 108.78                 | 11.1                       |
| 1,900.0                  | 0.97               | 332.12         | 1,899.9                | -2.0                  | 9.8                 | 101.63                 | 10.0                       |
| 2,000.0                  | 0.71               | 1.42           | 1,999.9                | -0.6                  | 9.4                 | 93.95                  | 9.4                        |
| 2,100.0                  | 0.85               | 351.67         | 2,099.9                | 0.7                   | 9.3                 | 85.68                  | 9.3                        |
| 2,200.0                  | 0.72               | 351.77         | 2,199.9                | 2.1                   | 9.1                 | 77.28                  | 9.4                        |
| 2,300.0                  | 0.68               | 17.40          | 2,299.9                | 3.2                   | 9.2                 | 70.58                  | 9.8                        |
| 2,400.0                  | 0.58               | 359.19         | 2,399.8                | 4.3                   | 9.4                 | 65.28                  | 10.3                       |
| 2,500.0                  | 0.44               | 28.84          | 2,499.8                | 5.2                   | 9.6                 | 61.63                  | 10.9                       |
| 2,600.0                  | 0.56               | 29.21          | 2,599.8                | 5.9                   | 10.0                | 59.31                  | 11.6                       |
| 2,700.0                  | 0.25               | 19.74          | 2,699.8                | 6.6                   | 10.3                | 57.51                  | 12.2                       |
| 2,800.0                  | 0.51               | 17.68          | 2,799.8                | 7.2                   | 10.5                | 55.63                  | 12.7                       |
| 2,900.0                  | 0.21               | 68.01          | 2,899.8                | 7.7                   | 10.8                | 54.61                  | 13.3                       |
| 3,000.0                  | 0.23               | 68.70          | 2,999.8                | 7.8                   | 11.2                | 55.00                  | 13.6                       |
| 3,100.0                  | 0.24               | 6.04           | 3,099.8                | 8.1                   | 11.4                | 54.54                  | 14.0                       |
| 3,200.0                  | 0.12               | 287.18         | 3,199.8                | 8.3                   | 11.3                | 53.56                  | 14.0                       |
| 3,300.0                  | 0.08               | 111.75         | 3,299.8                | 8.3                   | 11.3                | 53.46                  | 14.0                       |
| 3,400.0                  | 0.15               | 313.28         | 3,399.8                | 8.4                   | 11.2                | 53.18                  | 14.0                       |
| 3,500.0                  | 0.29               | 122.37         | 3,499.8                | 8.4                   | 11.4                | 53.62                  | 14.1                       |
| 3,600.0                  | 0.19               | 46.85          | 3,599.8                | 8.3                   | 11.7                | 54.48                  | 14.4                       |
| 3,700.0                  | 0.10               | 136.51         | 3,699.8                | 8.4                   | 11.9                | 54.73                  | 14.5                       |
| 3,800.0                  | 0.48               | 92.09          | 3,799.8                | 8.3                   | 12.3                | 56.04                  | 14.9                       |
| 3,900.0                  | 0.52               | 33.26          | 3,899.8                | 8.7                   | 13.0                | 56.30                  | 15.6                       |
| 4,000.0                  | 0.46               | 25.35          | 3,999.8                | 9.4                   | 13.4                | 54.96                  | 16.4                       |
| 4,100.0                  | 0.45               | 46.46          | 4,099.8                | 10.1                  | 13.9                | 54.11                  | 17.1                       |
| 4,200.0                  | 0.64               | 18.22          | 4,199.8                | 10.9                  | 14.4                | 52.90                  | 18.0                       |
| 4,300.0                  | 0.68               | 22.60          | 4,299.8                | 11.9                  | 14.8                | 51.03                  | 19.0                       |
| 4,400.0                  | 0.47               | 52.45          | 4,399.8                | 12.7                  | 15.3                | 50.25                  | 19.9                       |
| 4,500.0                  | 0.44               | 1.13           | 4,499.8                | 13.4                  | 15.6                | 49.48                  | 20.6                       |
| 4,600.0                  | 0.17               | 354.31         | 4,599.8                | 13.9                  | 15.6                | 48.36                  | 20.9                       |
| 4,700.0                  | 0.29               | 10.25          | 4,699.8                | 14.3                  | 15.7                | 47.62                  | 21.2                       |
| 4,800.0                  | 0.31               | 16.15          | 4,799.8                | 14.8                  | 15.8                | 46.84                  | 21.6                       |
| 4,900.0                  | 0.18               | 55.49          | 4,899.8                | 15.2                  | 16.0                | 46.54                  | 22.0                       |
| 5,000.0                  | 0.27               | 128.43         | 4,999.8                | 15.1                  | 16.3                | 47.20                  | 22.2                       |
| 5,100.0                  | 0.48               | 206.79         | 5,099.8                | 14.6                  | 16.3                | 48.20                  | 21.9                       |
| 5,200.0                  | 0.40               | 106.82         | 5,199.8                | 14.1                  | 16.4                | 49.39                  | 21.7                       |
| 5,230.0                  | 0.78               | 124.59         | 5,229.8                | 14.0                  | 16.7                | 50.14                  | 21.8                       |



**Scientific Drilling**  
Directional Drilling Operations

Project: Wildcat (Chaves County, NM)  
Chaves County, NM  
Well: Loving "7" Fee #1H  
Wellbore: VH - Job #32K0910671  
Design: VH - Job #32K0910671

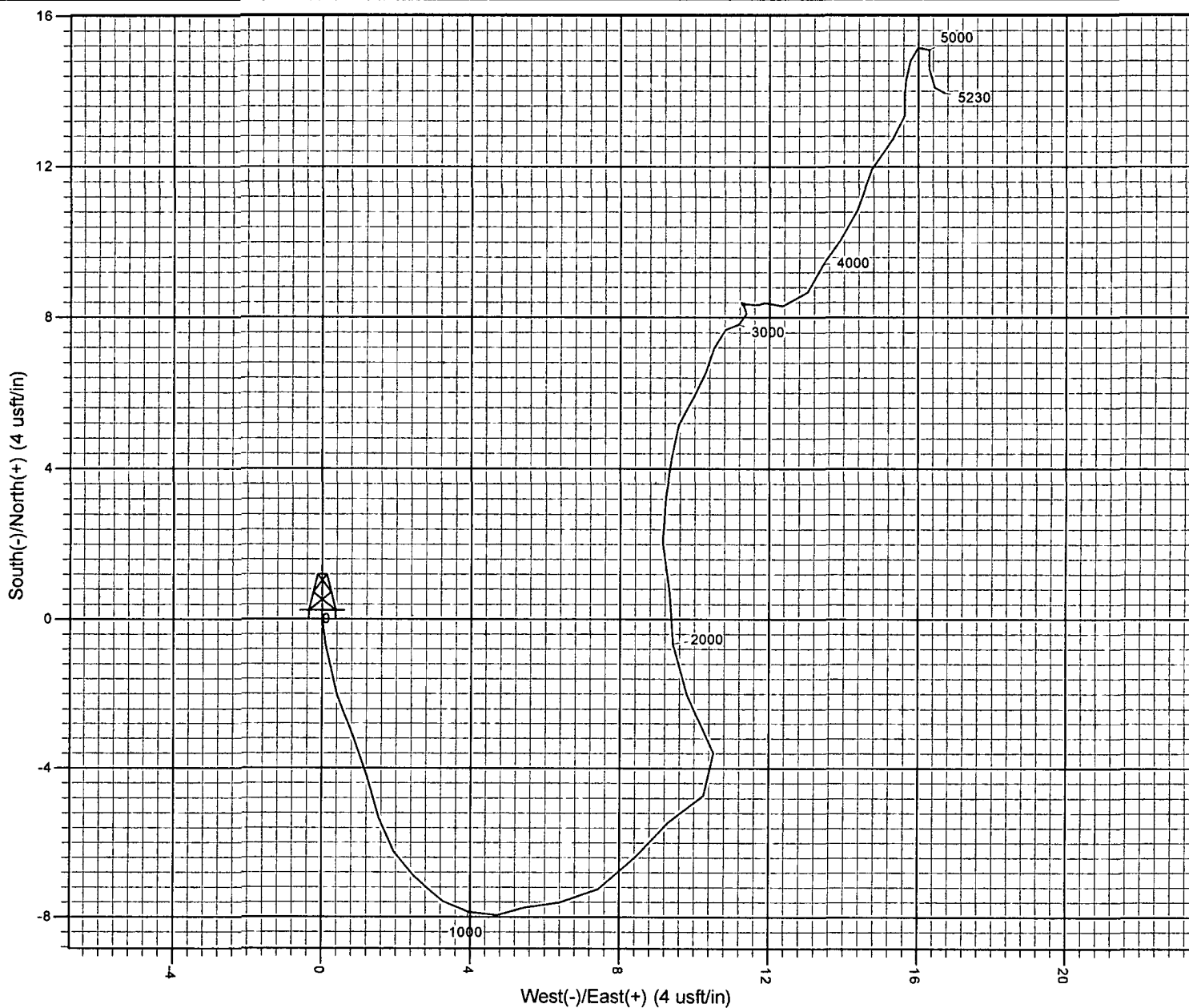


Azimuths to Grid North  
True North: -0.17°  
Magnetic North: 7.88°

Magnetic Field  
Strength: 49448.5nT  
Dip Angle: 61.28°  
Date: 9/13/2010  
Model: BGM2010

WELL DETAILS: Loving "7" Fee #1H  
WELL @ 0.0usft (Original Well Elev)  
Ground Level: 0.0

| +N/-S | +E/-W | Northing  | Easting   | Latitude         | Longitude        | Slot |
|-------|-------|-----------|-----------|------------------|------------------|------|
| 0.0   | 0.0   | 895355.27 | 595224.55 | 33° 27' 39.348 N | 104° 1' 15.964 W |      |



PROJECT DETAILS: Wildcat (Chaves County, NM)  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level

SITE DETAILS: Chaves County, NM  
Site Centre Latitude: 33° 27' 39.348 N  
Longitude: 104° 1' 15.964 W  
Positional Uncertainty: 0.0  
Convergence: 0.17  
Local North: Grid