



# Scientific Drilling

## BASS ENTERPRISES

Field: Golden Lane (Morrow)  
Site: Eddy County, NM  
Well: Big Eddy #153  
Wellpath: VH - Job #32K0905698  
Survey: 09/24/05

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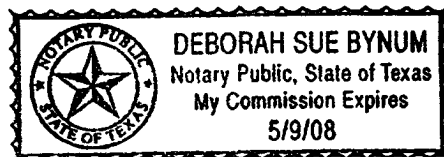
This survey is correct to the best of my knowledge  
and is supported by actual field data.

.....*Deborah Sue Bynum*.....Company Representative

Notorized this date 16<sup>th</sup> of October, 2005.

*Deborah Sue Bynum*  
Notary Signature

County of Midland  
State of Texas





# Scientific Drilling International

## Survey Report

|                                       |                                   |                                          |                   |
|---------------------------------------|-----------------------------------|------------------------------------------|-------------------|
| <b>Company:</b> BASS ENTERPRISES      | <b>Date:</b> 10/16/2005           | <b>Time:</b> 07:44:32                    | <b>Page:</b> 1    |
| <b>Field:</b> Golden Lane (Morrow)    | <b>Co-ordinate(NE) Reference:</b> | <b>Site:</b> Eddy County, NM, Grid North |                   |
| <b>Site:</b> Eddy County, NM          | <b>Vertical (TVD) Reference:</b>  | <b>SITE</b> 0.0                          |                   |
| <b>Well:</b> Big Eddy #153            | <b>Section (VS) Reference:</b>    | <b>Well</b> (0.00N,0.00E,64.82Azi)       |                   |
| <b>Wellpath:</b> VH - Job #32K0905698 | <b>Survey Calculation Method:</b> | <b>Minimum Curvature</b>                 | <b>Db:</b> Sybase |

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| <b>Survey:</b> 09/24/05                        | <b>Start Date:</b> 9/24/2005    |
| <b>Company:</b> Scientific Drilling Internatio | <b>Engineer:</b> Gonzales w/P&M |
| <b>Tool:</b> Keeper,Keeper Gyro                | <b>Tied-to:</b> From Surface    |

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 0.00     | 0.00        | 0.00        | 0.00      | 0.00     | 0.00      | 0.00      | 0.00             | 0.00       | 0.00        |
| 30.00    | 0.08        | 127.10      | 30.00     | 0.01     | -0.01     | 0.02      | 0.27             | 0.02       | 127.10      |
| 60.00    | 0.12        | 119.80      | 60.00     | 0.04     | -0.04     | 0.06      | 0.14             | 0.07       | 123.97      |
| 90.00    | 0.14        | 138.24      | 90.00     | 0.07     | -0.08     | 0.11      | 0.15             | 0.14       | 126.73      |
| 120.00   | 0.21        | 135.90      | 120.00    | 0.09     | -0.15     | 0.18      | 0.23             | 0.23       | 130.72      |
| 150.00   | 0.22        | 103.37      | 150.00    | 0.16     | -0.20     | 0.27      | 0.40             | 0.34       | 127.07      |
| 180.00   | 0.25        | 104.26      | 180.00    | 0.25     | -0.23     | 0.39      | 0.10             | 0.45       | 120.92      |
| 210.00   | 0.40        | 69.15       | 210.00    | 0.41     | -0.21     | 0.55      | 0.81             | 0.59       | 111.05      |
| 240.00   | 0.52        | 62.37       | 240.00    | 0.65     | -0.11     | 0.77      | 0.44             | 0.78       | 98.24       |
| 270.00   | 0.47        | 61.77       | 270.00    | 0.91     | 0.01      | 1.00      | 0.17             | 1.00       | 89.43       |
| 300.00   | 0.55        | 84.10       | 300.00    | 1.17     | 0.08      | 1.25      | 0.71             | 1.25       | 86.20       |
| 330.00   | 0.64        | 69.82       | 329.99    | 1.47     | 0.16      | 1.55      | 0.58             | 1.56       | 84.27       |
| 360.00   | 0.73        | 71.83       | 359.99    | 1.83     | 0.27      | 1.89      | 0.31             | 1.91       | 81.77       |
| 390.00   | 0.77        | 52.89       | 389.99    | 2.21     | 0.45      | 2.23      | 0.83             | 2.28       | 78.49       |
| 420.00   | 0.63        | 62.25       | 419.99    | 2.57     | 0.65      | 2.54      | 0.60             | 2.62       | 75.58       |
| 450.00   | 0.98        | 82.90       | 449.98    | 2.98     | 0.76      | 2.94      | 1.50             | 3.04       | 75.48       |
| 480.00   | 1.12        | 86.01       | 479.98    | 3.50     | 0.81      | 3.49      | 0.50             | 3.58       | 76.87       |
| 510.00   | 1.47        | 76.28       | 509.97    | 4.15     | 0.92      | 4.15      | 1.37             | 4.25       | 77.44       |
| 540.00   | 1.91        | 75.55       | 539.96    | 5.02     | 1.14      | 5.01      | 1.47             | 5.14       | 77.17       |
| 570.00   | 2.12        | 76.51       | 569.94    | 6.05     | 1.40      | 6.03      | 0.71             | 6.19       | 76.98       |
| 600.00   | 2.26        | 78.07       | 599.92    | 7.17     | 1.65      | 7.15      | 0.51             | 7.34       | 77.03       |
| 630.00   | 2.43        | 77.73       | 629.89    | 8.37     | 1.90      | 8.35      | 0.57             | 8.57       | 77.16       |
| 660.00   | 2.46        | 81.33       | 659.87    | 9.61     | 2.14      | 9.61      | 0.52             | 9.84       | 77.47       |
| 690.00   | 2.61        | 79.49       | 689.84    | 10.88    | 2.36      | 10.92     | 0.57             | 11.17      | 77.81       |
| 720.00   | 2.67        | 79.54       | 719.80    | 12.22    | 2.61      | 12.28     | 0.20             | 12.55      | 78.00       |
| 750.00   | 2.78        | 81.53       | 749.77    | 13.59    | 2.84      | 13.68     | 0.48             | 13.98      | 78.26       |
| 780.00   | 2.89        | 78.61       | 779.73    | 15.02    | 3.10      | 15.14     | 0.61             | 15.46      | 78.43       |
| 810.00   | 2.75        | 77.85       | 809.70    | 16.46    | 3.40      | 16.59     | 0.48             | 16.93      | 78.41       |
| 840.00   | 2.92        | 78.25       | 839.66    | 17.90    | 3.71      | 18.04     | 0.57             | 18.42      | 78.39       |
| 870.00   | 3.05        | 81.37       | 869.62    | 19.41    | 3.98      | 19.58     | 0.69             | 19.98      | 78.50       |
| 900.00   | 3.23        | 80.22       | 899.57    | 20.99    | 4.25      | 21.20     | 0.64             | 21.62      | 78.67       |
| 930.00   | 3.06        | 78.02       | 929.53    | 22.59    | 4.56      | 22.82     | 0.69             | 23.27      | 78.71       |
| 960.00   | 2.92        | 77.41       | 959.49    | 24.11    | 4.89      | 24.35     | 0.48             | 24.83      | 78.64       |
| 990.00   | 2.87        | 79.77       | 989.45    | 25.58    | 5.19      | 25.83     | 0.43             | 26.35      | 78.64       |
| 1020.00  | 3.10        | 80.56       | 1019.41   | 27.09    | 5.46      | 27.37     | 0.78             | 27.91      | 78.73       |
| 1050.00  | 2.98        | 76.92       | 1049.37   | 28.63    | 5.77      | 28.93     | 0.76             | 29.50      | 78.73       |
| 1080.00  | 2.91        | 77.38       | 1079.33   | 30.14    | 6.11      | 30.43     | 0.25             | 31.04      | 78.65       |
| 1110.00  | 2.86        | 81.42       | 1109.29   | 31.60    | 6.39      | 31.91     | 0.70             | 32.55      | 78.68       |
| 1140.00  | 3.04        | 78.59       | 1139.25   | 33.09    | 6.66      | 33.43     | 0.77             | 34.09      | 78.74       |
| 1170.00  | 3.02        | 80.30       | 1169.21   | 34.62    | 6.95      | 34.99     | 0.31             | 35.68      | 78.77       |
| 1200.00  | 2.83        | 82.31       | 1199.17   | 36.09    | 7.18      | 36.51     | 0.72             | 37.21      | 78.88       |
| 1230.00  | 3.04        | 82.13       | 1229.13   | 37.56    | 7.39      | 38.03     | 0.70             | 38.74      | 79.01       |
| 1260.00  | 3.00        | 81.95       | 1259.09   | 39.07    | 7.60      | 39.59     | 0.14             | 40.32      | 79.13       |
| 1290.00  | 2.79        | 82.19       | 1289.05   | 40.51    | 7.81      | 41.09     | 0.70             | 41.83      | 79.23       |
| 1320.00  | 2.80        | 83.23       | 1319.01   | 41.91    | 8.00      | 42.55     | 0.17             | 43.29      | 79.35       |
| 1350.00  | 2.94        | 80.72       | 1348.98   | 43.34    | 8.21      | 44.03     | 0.63             | 44.79      | 79.44       |
| 1380.00  | 2.86        | 81.42       | 1378.94   | 44.80    | 8.45      | 45.53     | 0.29             | 46.31      | 79.49       |
| 1410.00  | 2.92        | 82.31       | 1408.90   | 46.24    | 8.66      | 47.03     | 0.25             | 47.82      | 79.57       |
| 1440.00  | 3.16        | 79.74       | 1438.86   | 47.77    | 8.91      | 48.60     | 0.92             | 49.41      | 79.61       |



# Scientific Drilling International

## Survey Report

Company: BASS ENTERPRISES  
Field: Golden Lane (Morrow)  
Site: Eddy County, NM  
Well: Big Eddy #153  
Wellpath: VH - Job #32K0905698

Date: 10/16/2005 Time: 07:44:32 Page: 2  
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North  
Vertical (TVD) Reference: SITE 0.0  
Section (VS) Reference: Well (0.00N,0.00E,64.82Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

### Survey

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | VS<br>ft | N/S<br>ft | E/W<br>ft | DLS<br>deg/100ft | ClsD<br>ft | ClsA<br>deg |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 1470.00  | 3.00        | 83.72       | 1468.81   | 49.31    | 9.14      | 50.19     | 0.89             | 51.02      | 79.68       |
| 1500.00  | 3.16        | 80.57       | 1498.77   | 50.85    | 9.36      | 51.79     | 0.78             | 52.63      | 79.75       |
| 1530.00  | 3.29        | 78.92       | 1528.72   | 52.48    | 9.66      | 53.45     | 0.53             | 54.32      | 79.75       |
| 1560.00  | 2.85        | 78.56       | 1558.68   | 54.04    | 9.98      | 55.03     | 1.47             | 55.92      | 79.72       |
| 1590.00  | 2.96        | 77.68       | 1588.64   | 55.52    | 10.29     | 56.51     | 0.40             | 57.44      | 79.68       |
| 1620.00  | 3.13        | 67.67       | 1618.60   | 57.09    | 10.77     | 58.03     | 1.86             | 59.02      | 79.49       |
| 1650.00  | 3.15        | 57.05       | 1648.55   | 58.73    | 11.53     | 59.48     | 1.94             | 60.58      | 79.03       |
| 1680.00  | 3.47        | 57.11       | 1678.50   | 60.45    | 12.47     | 60.93     | 1.07             | 62.19      | 78.44       |
| 1710.00  | 4.40        | 54.55       | 1708.43   | 62.48    | 13.63     | 62.63     | 3.15             | 64.10      | 77.72       |
| 1740.00  | 5.52        | 49.88       | 1738.32   | 65.00    | 15.23     | 64.67     | 3.97             | 66.44      | 76.75       |
| 1770.00  | 6.66        | 48.96       | 1768.15   | 68.07    | 17.30     | 67.09     | 3.81             | 69.28      | 75.54       |
| 1800.00  | 7.90        | 47.31       | 1797.91   | 71.71    | 19.84     | 69.92     | 4.19             | 72.68      | 74.16       |
| 1830.00  | 9.27        | 43.40       | 1827.57   | 75.93    | 22.99     | 73.09     | 4.96             | 76.62      | 72.54       |
| 1860.00  | 9.78        | 43.75       | 1857.16   | 80.55    | 26.59     | 76.51     | 1.71             | 81.00      | 70.84       |
| 1890.00  | 10.13       | 41.49       | 1886.71   | 85.35    | 30.41     | 80.02     | 1.75             | 85.60      | 69.20       |
| 1920.00  | 10.21       | 41.76       | 1916.24   | 90.22    | 34.36     | 83.54     | 0.31             | 90.33      | 67.64       |
| 1950.00  | 9.85        | 44.41       | 1945.78   | 95.08    | 38.18     | 87.11     | 1.95             | 95.11      | 66.33       |
| 1980.00  | 9.90        | 42.86       | 1975.33   | 99.87    | 41.90     | 90.66     | 0.90             | 99.87      | 65.19       |
| 1990.00  | 9.86        | 41.84       | 1985.18   | 101.46   | 43.17     | 91.81     | 1.80             | 101.46     | 64.82       |



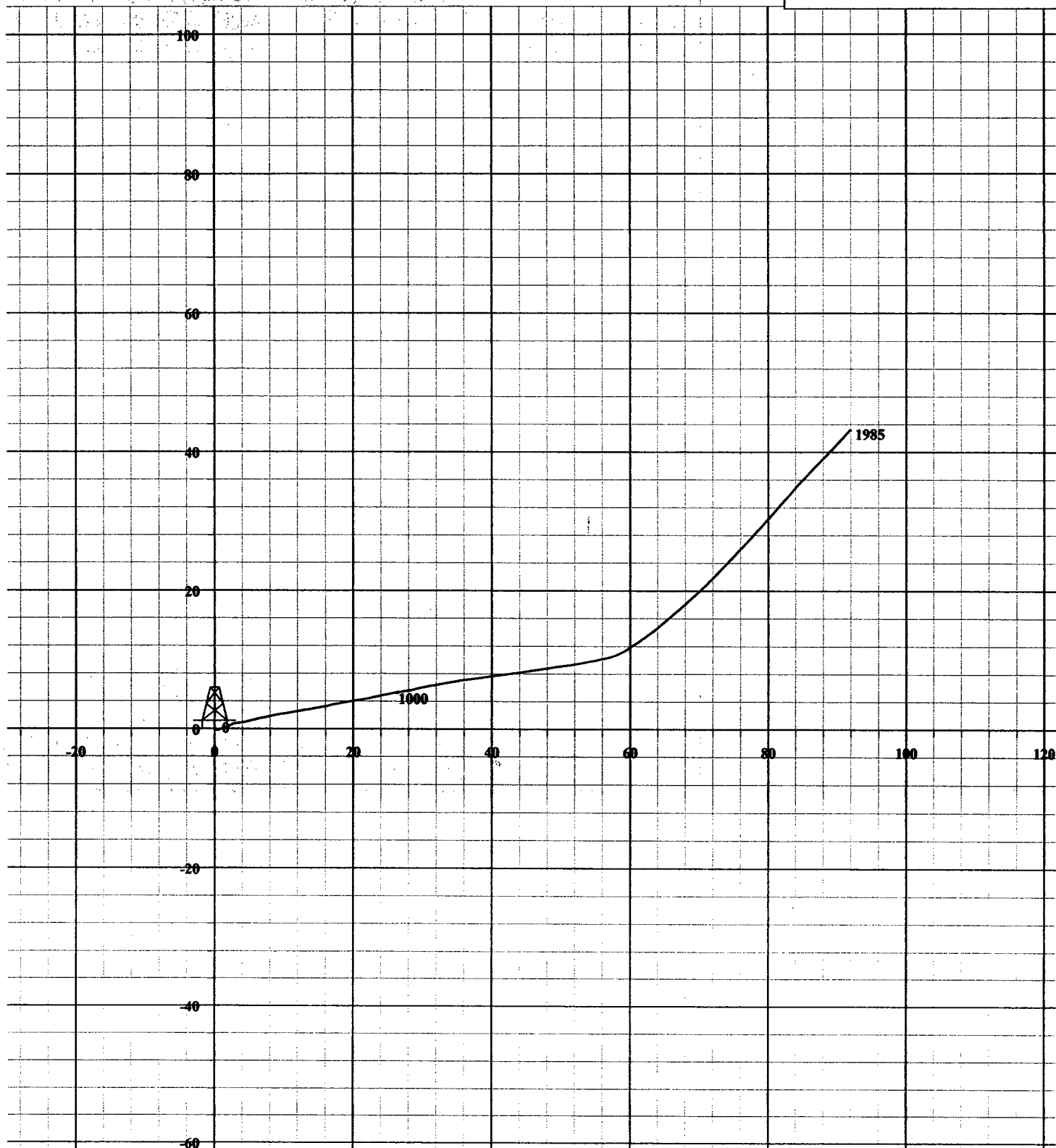
**Scientific  
Drilling**

**Field:** Golden Lane (Morrow)  
**Site:** Eddy County, NM  
**Well:** Big Eddy #153  
**Wellpath:** VH - Job #32K0905698  
**Survey:** 09/24/05



Azimuth to Grid North  
True North: 0.00°  
Magnetic North: 0.00°  
Magnetic Field  
Strength: 0.00 T  
Dip Angle: 0.00°  
Date: 10/16/2005  
Model: igr2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]