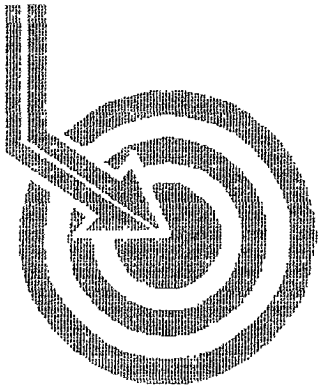
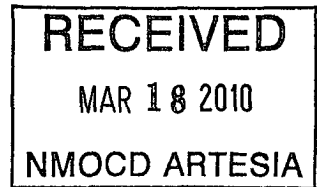




# Scientific Drilling



## EOG

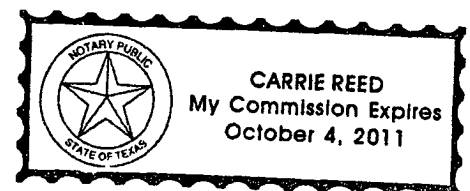
Field: Sand Tank Bone Springs  
Site: Eddy County, NM  
Well: Sand Tank 18 Federal Com #4H  
Wellpath: VH - Job #32K0609232  
Survey: 06/26/09

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

.....*Leah Hartman*.....Company Representative

Notorized this date 24th of July, 2009.

*Carrie Reed*  
Notary Signature  
County of Midland  
State of Texas





Scientific  
Drilling

# Scientific Drilling International Survey Report

|                                           |                                                     |                                          |                |
|-------------------------------------------|-----------------------------------------------------|------------------------------------------|----------------|
| <b>Company:</b> EOG                       | <b>Date:</b> 06/27/2009                             | <b>Time:</b> 19:05:00                    | <b>Page:</b> 1 |
| <b>Field:</b> Sand Tank Bone Springs      | <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> Sand Tank 18 Federal Com #4H | <b>Section (VS) Reference:</b>                      | <b>Well</b> (0.00N,0.00E,88.69Azi)       |                |
| <b>Wellpath:</b> VH - Job #32K0609232     | <b>Survey Calculation Method:</b> Minimum Curvature | <b>Db:</b> Sybase                        |                |

|                                             |                                  |
|---------------------------------------------|----------------------------------|
| <b>Survey:</b> 06/26/09                     | <b>Start Date:</b> 06/26/2009    |
| <b>Company:</b> KSRG 0'-7674'               |                                  |
| <b>Tool:</b> Scientific Drilling Internatio | <b>Engineer:</b> Melendez w/Gray |
| <b>Keeper;Keeper Surface Readout Gyro</b>   | <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        | 359.82      | 0.00      | 0.00     | 0.00      | 0.00      | 0.00             | 0.00       | 0.00        |
| 100.00   | 0.81        | 71.46       | 100.00    | 0.68     | 0.22      | 0.67      | 0.81             | 0.71       | 71.46       |
| 200.00   | 0.80        | 71.49       | 199.99    | 2.02     | 0.67      | 2.00      | 0.01             | 2.11       | 71.47       |
| 300.00   | 1.02        | 63.67       | 299.97    | 3.49     | 1.29      | 3.46      | 0.25             | 3.69       | 69.60       |
| 400.00   | 1.05        | 62.51       | 399.96    | 5.12     | 2.11      | 5.07      | 0.04             | 5.49       | 67.46       |
| 500.00   | 0.97        | 70.43       | 499.94    | 6.75     | 2.81      | 6.68      | 0.16             | 7.25       | 67.18       |
| 600.00   | 1.09        | 70.02       | 599.93    | 8.45     | 3.42      | 8.37      | 0.12             | 9.05       | 67.78       |
| 700.00   | 0.98        | 69.74       | 699.91    | 10.16    | 4.04      | 10.07     | 0.11             | 10.85      | 68.13       |
| 800.00   | 1.06        | 68.57       | 799.89    | 11.84    | 4.68      | 11.73     | 0.08             | 12.63      | 68.27       |
| 900.00   | 1.11        | 65.14       | 899.88    | 13.59    | 5.42      | 13.47     | 0.08             | 14.52      | 68.08       |
| 1000.00  | 1.45        | 69.53       | 999.85    | 15.68    | 6.27      | 15.54     | 0.35             | 16.76      | 68.02       |
| 1100.00  | 1.78        | 74.34       | 1099.81   | 18.38    | 7.13      | 18.22     | 0.36             | 19.56      | 68.62       |
| 1200.00  | 1.81        | 74.96       | 1199.76   | 21.42    | 7.96      | 21.24     | 0.04             | 22.68      | 69.45       |
| 1300.00  | 1.27        | 71.61       | 1299.73   | 24.01    | 8.72      | 23.82     | 0.55             | 25.36      | 69.89       |
| 1400.00  | 0.89        | 59.05       | 1399.71   | 25.74    | 9.47      | 25.53     | 0.45             | 27.23      | 69.65       |
| 1500.00  | 0.63        | 15.35       | 1499.70   | 26.58    | 10.40     | 26.35     | 0.62             | 28.32      | 68.46       |
| 1600.00  | 0.67        | 351.21      | 1599.69   | 26.66    | 11.51     | 26.40     | 0.27             | 28.80      | 66.45       |
| 1700.00  | 0.83        | 324.59      | 1699.69   | 26.18    | 12.68     | 25.89     | 0.38             | 28.83      | 63.92       |
| 1800.00  | 0.79        | 328.95      | 1799.68   | 25.43    | 13.86     | 25.12     | 0.07             | 28.69      | 61.12       |
| 1900.00  | 0.76        | 323.43      | 1899.67   | 24.70    | 14.98     | 24.37     | 0.08             | 28.60      | 58.42       |
| 2000.00  | 0.70        | 309.01      | 1999.66   | 23.85    | 15.90     | 23.50     | 0.19             | 28.37      | 55.92       |
| 2100.00  | 0.62        | 322.78      | 2099.65   | 23.07    | 16.71     | 22.69     | 0.18             | 28.18      | 53.63       |
| 2200.00  | 0.62        | 317.29      | 2199.65   | 22.40    | 17.54     | 22.00     | 0.06             | 28.14      | 51.44       |
| 2300.00  | 0.65        | 324.17      | 2299.64   | 21.72    | 18.40     | 21.30     | 0.08             | 28.15      | 49.18       |
| 2400.00  | 0.69        | 314.27      | 2399.63   | 20.97    | 19.28     | 20.54     | 0.12             | 28.17      | 46.81       |
| 2500.00  | 0.56        | 310.88      | 2499.63   | 20.19    | 20.02     | 19.74     | 0.14             | 28.11      | 44.60       |
| 2600.00  | 0.77        | 293.56      | 2599.62   | 19.22    | 20.61     | 18.75     | 0.29             | 27.86      | 42.30       |
| 2700.00  | 0.67        | 291.95      | 2699.61   | 18.07    | 21.09     | 17.59     | 0.10             | 27.47      | 39.83       |
| 2800.00  | 0.68        | 295.74      | 2799.61   | 17.01    | 21.57     | 16.52     | 0.05             | 27.17      | 37.44       |
| 2900.00  | 0.63        | 286.51      | 2899.60   | 15.95    | 21.98     | 15.46     | 0.12             | 26.87      | 35.11       |
| 3000.00  | 0.72        | 288.78      | 2999.59   | 14.84    | 22.34     | 14.33     | 0.09             | 26.54      | 32.68       |
| 3100.00  | 0.51        | 296.82      | 3099.59   | 13.86    | 22.75     | 13.34     | 0.23             | 26.37      | 30.39       |
| 3200.00  | 0.69        | 288.96      | 3199.58   | 12.90    | 23.14     | 12.38     | 0.20             | 26.24      | 28.14       |
| 3300.00  | 0.73        | 294.95      | 3299.57   | 11.76    | 23.61     | 11.23     | 0.08             | 26.14      | 25.44       |
| 3400.00  | 0.81        | 291.68      | 3399.56   | 10.54    | 24.14     | 9.99      | 0.09             | 26.12      | 22.49       |
| 3500.00  | 0.66        | 315.44      | 3499.56   | 9.50     | 24.81     | 8.93      | 0.34             | 26.37      | 19.80       |
| 3600.00  | 0.21        | 349.69      | 3599.55   | 9.07     | 25.40     | 8.50      | 0.50             | 26.78      | 18.50       |
| 3700.00  | 0.27        | 140.52      | 3699.55   | 9.19     | 25.40     | 8.61      | 0.46             | 26.82      | 18.73       |
| 3800.00  | 0.44        | 123.12      | 3799.55   | 9.65     | 25.00     | 9.08      | 0.20             | 26.60      | 19.97       |
| 3900.00  | 0.40        | 123.50      | 3899.55   | 10.26    | 24.60     | 9.70      | 0.04             | 26.44      | 21.51       |
| 4000.00  | 0.57        | 87.47       | 3999.54   | 11.04    | 24.43     | 10.48     | 0.34             | 26.59      | 23.23       |
| 4100.00  | 0.47        | 95.92       | 4099.54   | 11.94    | 24.41     | 11.39     | 0.13             | 26.94      | 25.01       |
| 4200.00  | 0.48        | 73.24       | 4199.54   | 12.76    | 24.49     | 12.20     | 0.19             | 27.36      | 26.48       |
| 4300.00  | 0.51        | 37.23       | 4299.53   | 13.44    | 24.96     | 12.87     | 0.31             | 28.09      | 27.27       |
| 4400.00  | 0.46        | 355.04      | 4399.53   | 13.69    | 25.72     | 13.10     | 0.35             | 28.86      | 27.00       |
| 4500.00  | 0.44        | 321.64      | 4499.53   | 13.43    | 26.42     | 12.83     | 0.26             | 29.37      | 25.90       |
| 4600.00  | 0.35        | 304.95      | 4599.52   | 12.95    | 26.90     | 12.34     | 0.15             | 29.59      | 24.65       |
| 4700.00  | 0.20        | 294.63      | 4699.52   | 12.55    | 27.14     | 11.93     | 0.16             | 29.65      | 23.73       |
| 4800.00  | 0.58        | 262.74      | 4799.52   | 11.89    | 27.15     | 11.27     | 0.42             | 29.40      | 22.55       |



# Scientific Drilling International

## Survey Report

|                                           |                                   |                                          |                   |
|-------------------------------------------|-----------------------------------|------------------------------------------|-------------------|
| <b>Company:</b> EOG                       | <b>Date:</b> 06/27/2009           | <b>Time:</b> 19:05:00                    | <b>Page:</b> 2    |
| <b>Field:</b> Sand Tank Bone Springs      | <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> Sand Tank 18 Federal Com #4H | <b>Section (VS) Reference:</b>    | <b>Well</b> (0.00N,0.00E,88.69Azi)       |                   |
| <b>Wellpath:</b> VH - Job #32K0609232     | <b>Survey Calculation Method:</b> | <b>Minimum Curvature</b>                 | <b>Db:</b> Sybase |

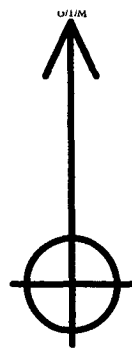
### Survey

| 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 |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 4900.00  | 0.47        | 267.36      | 4899.52   | 10.98    | 27.07     | 10.36     | 0.12             | 28.98      | 20.94       |
| 5000.00  | 0.69        | 259.65      | 4999.51   | 9.97     | 26.94     | 9.36      | 0.23             | 28.52      | 19.15       |
| 5100.00  | 0.90        | 266.32      | 5099.50   | 8.59     | 26.78     | 7.98      | 0.23             | 27.95      | 16.60       |
| 5200.00  | 1.03        | 267.96      | 5199.49   | 6.91     | 26.70     | 6.30      | 0.13             | 27.44      | 13.28       |
| 5300.00  | 1.24        | 271.89      | 5299.47   | 4.93     | 26.71     | 4.32      | 0.22             | 27.05      | 9.19        |
| 5400.00  | 1.27        | 262.94      | 5399.44   | 2.75     | 26.61     | 2.14      | 0.20             | 26.69      | 4.60        |
| 5500.00  | 1.56        | 253.98      | 5499.41   | 0.33     | 26.09     | -0.27     | 0.36             | 26.09      | 359.41      |
| 5600.00  | 1.75        | 251.34      | 5599.37   | -2.45    | 25.23     | -3.02     | 0.20             | 25.41      | 353.17      |
| 5700.00  | 1.87        | 255.16      | 5699.32   | -5.49    | 24.32     | -6.05     | 0.17             | 25.06      | 346.04      |
| 5800.00  | 1.96        | 250.77      | 5799.27   | -8.70    | 23.34     | -9.24     | 0.17             | 25.10      | 338.40      |
| 5900.00  | 2.13        | 258.37      | 5899.20   | -12.16   | 22.40     | -12.67    | 0.32             | 25.74      | 330.50      |
| 6000.00  | 2.46        | 244.51      | 5999.12   | -15.94   | 21.11     | -16.43    | 0.64             | 26.75      | 322.10      |
| 6100.00  | 2.32        | 241.19      | 6099.04   | -19.70   | 19.21     | -20.14    | 0.20             | 27.83      | 313.64      |
| 6200.00  | 2.45        | 239.86      | 6198.95   | -23.37   | 17.16     | -23.76    | 0.14             | 29.31      | 305.83      |
| 6300.00  | 2.33        | 248.24      | 6298.86   | -27.14   | 15.33     | -27.50    | 0.37             | 31.49      | 299.14      |
| 6400.00  | 2.29        | 253.70      | 6398.78   | -30.98   | 14.02     | -31.31    | 0.22             | 34.30      | 294.12      |
| 6500.00  | 2.33        | 265.17      | 6498.70   | -34.94   | 13.28     | -35.25    | 0.46             | 37.67      | 290.65      |
| 6600.00  | 2.33        | 279.82      | 6598.62   | -38.96   | 13.46     | -39.28    | 0.59             | 41.52      | 288.92      |
| 6700.00  | 2.24        | 289.15      | 6698.54   | -42.79   | 14.45     | -43.13    | 0.38             | 45.48      | 288.52      |
| 6800.00  | 2.09        | 306.60      | 6798.47   | -46.05   | 16.18     | -46.44    | 0.67             | 49.17      | 289.21      |
| 6900.00  | 2.05        | 303.44      | 6898.40   | -48.96   | 18.25     | -49.39    | 0.12             | 52.66      | 290.28      |
| 7000.00  | 1.97        | 313.45      | 6998.34   | -51.65   | 20.42     | -52.13    | 0.36             | 55.99      | 291.39      |
| 7100.00  | 1.85        | 317.17      | 7098.29   | -53.94   | 22.78     | -54.48    | 0.17             | 59.05      | 292.69      |
| 7200.00  | 1.79        | 312.37      | 7198.24   | -56.14   | 25.02     | -56.73    | 0.16             | 62.00      | 293.80      |
| 7300.00  | 1.67        | 313.43      | 7298.19   | -58.31   | 27.07     | -58.94    | 0.12             | 64.86      | 294.67      |
| 7400.00  | 2.13        | 313.28      | 7398.14   | -60.67   | 29.35     | -61.35    | 0.46             | 68.01      | 295.56      |
| 7500.00  | 2.30        | 304.32      | 7498.06   | -63.62   | 31.75     | -64.36    | 0.39             | 71.77      | 296.26      |
| 7600.00  | 2.15        | 308.68      | 7597.99   | -66.69   | 34.06     | -67.48    | 0.23             | 75.59      | 296.78      |
| 7674.00  | 2.22        | 298.90      | 7671.93   | -68.99   | 35.62     | -69.82    | 0.51             | 78.38      | 297.03      |



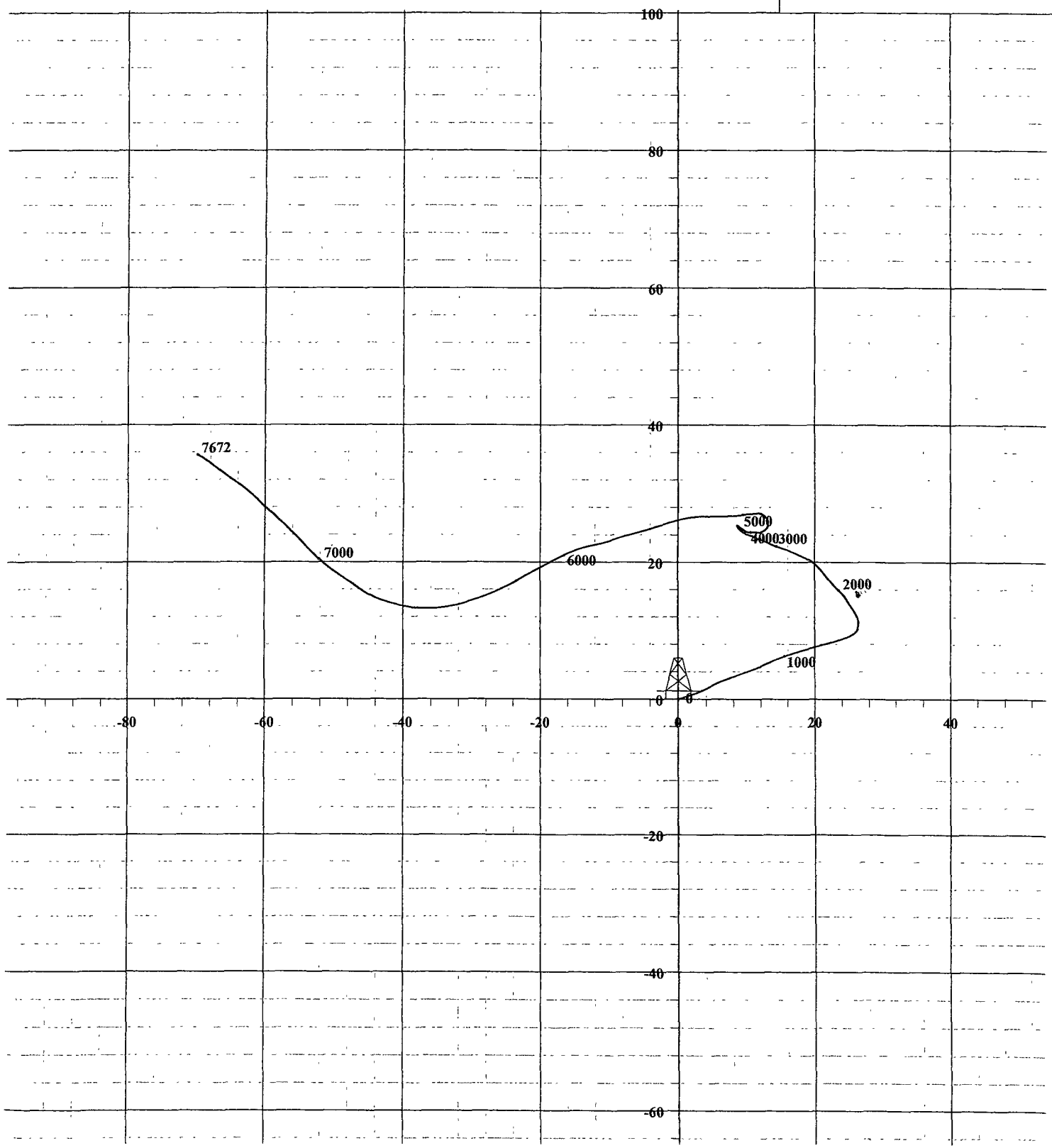
Scientific  
Drilling

Field: Sand Tank Bone Springs  
Site: Eddy County, NM  
Well: Sand Tank 18 Federal Com #4H  
Wellpath: VH - Job #32K0609232  
Survey: 06/26/09



Azimuths to Grid North  
True North: 0.00°  
Magnetic North: 0.00°  
Magnetic Field  
Strength: 0nT  
Dip Angle: 0.00°  
Date: 06/26/2009  
Model: sgr2000

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



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