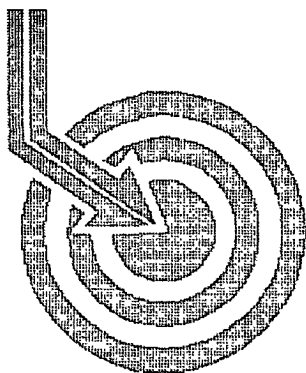




# Scientific Drilling

## CONOCOPHILLIPS

Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 28-6 #103N  
Wellpath: DH - Job #33D0307209  
Survey: 03/13/07-03/18/07

30-039-299.16

Surface 1110 / S 17.90 / W  
Int BHL 1864 / S 7.16 / W

Need Deviation Survey at B.H.L.

RCVD JUL23'07  
OIL CONS. DIV.

DIST. 3

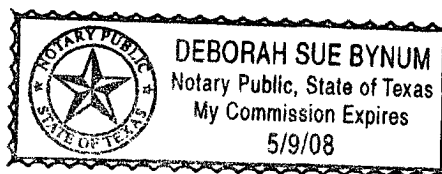
This survey is correct to the best of my knowledge  
and is supported by actual field data.

.....Shhark..... Company Representative

Notorized this date 16<sup>th</sup> of April, 2007.

Deborah Sue Bynum

Notary Signature  
County of Midland  
State of Texas





# Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 04/16/2007 Time: 12:23:54 Page: 1  
Field: San Juan Co-ordinate(NE) Reference: Site: Rio Arriba County, NM Grid: North  
Site: Rio Arriba County, NM Vertical (TVD) Reference: SITE: 0.0  
Well: San Juan 28-6 #103N Section (VS) Reference: Well (0.00N/0.00E/305.06Azi)  
Wellpath: DH: Job #33D0307209 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/13/07-03/18/07 Start Date: 03/13/2007  
E-field 0'-4490' w/projection @ 4545'  
Company: Scientific Drilling Internatio Engineer: Drake/Gillespie/Heikkinen/Lock  
Tool: Keeper/Keeper Gyro Tied-to: From Surface

## Survey

| MD      | Incl  | Azim   | TVD     | VS      | N/S    | E/W      | DLS       | ClsD    | ClsA   |
|---------|-------|--------|---------|---------|--------|----------|-----------|---------|--------|
| ft      | deg   | deg    | ft      | ft      | ft     | ft       | deg/100ft | ft      | deg    |
| 0.00    | 0.00  | 0.00   | 0.00    | 0.00    | 0.00   | 0.00     | 0.00      | 0.00    | 0.00   |
| 300.00  | 0.00  | 0.00   | 300.00  | 0.00    | 0.00   | 0.00     | 0.00      | 0.00    | 0.00   |
| 391.00  | 0.78  | 48.77  | 391.00  | -0.15   | 0.41   | 0.47     | 0.86      | 0.62    | 48.77  |
| 453.00  | 1.67  | 311.83 | 452.99  | 0.65    | 1.29   | 0.11     | 3.11      | 1.29    | 4.88   |
| 513.00  | 3.77  | 313.85 | 512.92  | 3.47    | 3.24   | -1.96    | 3.50      | 3.79    | 328.77 |
| 575.00  | 5.65  | 308.93 | 574.70  | 8.53    | 6.57   | -5.81    | 3.10      | 8.77    | 318.52 |
| 636.00  | 7.29  | 307.07 | 635.31  | 15.39   | 10.79  | -11.23   | 2.71      | 15.58   | 313.85 |
| 697.00  | 9.89  | 301.88 | 695.63  | 24.49   | 15.89  | -18.77   | 4.44      | 24.59   | 310.25 |
| 758.00  | 12.10 | 302.28 | 755.50  | 36.11   | 22.07  | -28.63   | 3.63      | 36.15   | 307.63 |
| 821.00  | 14.35 | 303.46 | 816.83  | 50.51   | 29.90  | -40.72   | 3.60      | 50.52   | 306.29 |
| 884.00  | 16.93 | 304.95 | 877.49  | 67.49   | 39.46  | -54.76   | 4.14      | 67.50   | 305.78 |
| 948.00  | 19.65 | 306.80 | 938.25  | 87.57   | 51.25  | -71.01   | 4.35      | 87.58   | 305.82 |
| 1012.00 | 22.01 | 306.86 | 998.06  | 110.32  | 64.89  | -89.23   | 3.69      | 110.33  | 306.03 |
| 1076.00 | 22.54 | 305.74 | 1057.29 | 134.57  | 79.25  | -108.78  | 1.06      | 134.59  | 306.07 |
| 1171.00 | 22.99 | 305.71 | 1144.89 | 171.33  | 100.72 | -138.62  | 0.47      | 171.35  | 306.00 |
| 1267.00 | 23.23 | 306.15 | 1233.18 | 209.00  | 122.83 | -169.13  | 0.31      | 209.03  | 305.99 |
| 1363.00 | 22.84 | 305.86 | 1321.53 | 246.56  | 144.91 | -199.52  | 0.42      | 246.59  | 305.99 |
| 1458.00 | 22.32 | 305.94 | 1409.25 | 283.03  | 166.30 | -229.07  | 0.55      | 283.07  | 305.98 |
| 1554.00 | 23.32 | 305.87 | 1497.73 | 320.26  | 188.13 | -259.23  | 1.04      | 320.30  | 305.97 |
| 1650.00 | 24.19 | 305.99 | 1585.60 | 358.93  | 210.82 | -290.54  | 0.91      | 358.97  | 305.97 |
| 1746.00 | 23.70 | 305.74 | 1673.33 | 397.89  | 233.65 | -322.12  | 0.52      | 397.93  | 305.96 |
| 1841.00 | 23.28 | 305.67 | 1760.46 | 435.75  | 255.75 | -352.86  | 0.44      | 435.80  | 305.93 |
| 1937.00 | 24.24 | 304.62 | 1848.32 | 474.43  | 278.01 | -384.49  | 1.09      | 474.47  | 305.87 |
| 2032.00 | 23.87 | 304.55 | 1935.07 | 513.15  | 299.99 | -416.37  | 0.39      | 513.19  | 305.77 |
| 2128.00 | 23.27 | 304.85 | 2023.06 | 551.54  | 321.84 | -447.93  | 0.64      | 551.57  | 305.70 |
| 2224.00 | 22.86 | 304.05 | 2111.39 | 589.14  | 343.12 | -478.95  | 0.54      | 589.17  | 305.62 |
| 2320.00 | 22.28 | 304.46 | 2200.04 | 625.98  | 363.86 | -509.40  | 0.63      | 626.01  | 305.54 |
| 2415.00 | 22.75 | 304.50 | 2287.80 | 662.36  | 384.45 | -539.39  | 0.49      | 662.38  | 305.48 |
| 2511.00 | 22.44 | 303.65 | 2376.43 | 699.24  | 405.12 | -569.94  | 0.47      | 699.25  | 305.41 |
| 2607.00 | 22.07 | 303.70 | 2465.28 | 735.59  | 425.28 | -600.20  | 0.39      | 735.59  | 305.32 |
| 2702.00 | 22.06 | 303.62 | 2553.32 | 771.26  | 445.06 | -629.90  | 0.03      | 771.27  | 305.24 |
| 2798.00 | 21.65 | 303.75 | 2642.42 | 806.99  | 464.88 | -659.64  | 0.43      | 806.99  | 305.17 |
| 2894.00 | 21.79 | 304.49 | 2731.60 | 842.51  | 484.81 | -689.05  | 0.32      | 842.51  | 305.13 |
| 2958.00 | 21.61 | 304.85 | 2791.07 | 866.17  | 498.27 | -708.51  | 0.35      | 866.17  | 305.12 |
| 3022.00 | 21.88 | 305.95 | 2850.51 | 889.88  | 512.00 | -727.83  | 0.76      | 889.88  | 305.12 |
| 3085.00 | 21.39 | 305.53 | 2909.07 | 913.11  | 525.57 | -746.69  | 0.82      | 913.11  | 305.14 |
| 3149.00 | 20.62 | 304.49 | 2968.82 | 936.05  | 538.74 | -765.47  | 1.34      | 936.05  | 305.14 |
| 3245.00 | 20.28 | 301.74 | 3058.77 | 969.56  | 557.06 | -793.56  | 1.06      | 969.56  | 305.07 |
| 3340.00 | 19.10 | 300.33 | 3148.22 | 1001.49 | 573.57 | -820.97  | 1.34      | 1001.49 | 304.94 |
| 3436.00 | 22.38 | 302.21 | 3237.99 | 1035.40 | 591.25 | -850.00  | 3.49      | 1035.41 | 304.82 |
| 3500.00 | 22.91 | 304.90 | 3297.05 | 1060.03 | 604.87 | -870.53  | 1.82      | 1060.04 | 304.79 |
| 3596.00 | 22.13 | 305.28 | 3385.73 | 1096.80 | 626.01 | -900.62  | 0.83      | 1096.81 | 304.80 |
| 3692.00 | 21.28 | 303.63 | 3474.93 | 1132.30 | 646.10 | -929.88  | 1.09      | 1132.31 | 304.79 |
| 3755.00 | 20.28 | 303.87 | 3533.83 | 1154.64 | 658.52 | -948.47  | 1.59      | 1154.66 | 304.77 |
| 3819.00 | 19.03 | 303.89 | 3594.10 | 1176.16 | 670.52 | -966.34  | 1.95      | 1176.18 | 304.76 |
| 3883.00 | 17.01 | 304.39 | 3654.95 | 1195.96 | 681.62 | -982.73  | 3.17      | 1195.98 | 304.75 |
| 3947.00 | 15.37 | 302.71 | 3716.41 | 1213.79 | 691.49 | -997.59  | 2.66      | 1213.82 | 304.73 |
| 4010.00 | 14.21 | 303.60 | 3777.33 | 1229.87 | 700.28 | -1011.06 | 1.88      | 1229.89 | 304.71 |
| 4074.00 | 13.22 | 304.95 | 3839.50 | 1245.04 | 708.82 | -1023.60 | 1.63      | 1245.06 | 304.70 |

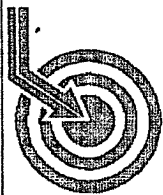


# Scientific Drilling International Survey Report

Company: CONOCOPHILLIPS Date: 04/16/2007 Time: 12:23:54 Page: 2  
Field: San Juan Co-ordinate(NE) Reference: Site: Rio Arriba County, NM, Grid North  
Site: Rio Arriba County, NM Vertical (TVD) Reference: SITE 0.0  
Well: San Juan 28-6 #103N Section (VS) Reference: Well (0.00N, 0.00E, 305.06Azi)  
Wellpath: DH - Job #33D0307209 Survey Calculation Method: Minimum Curvature Db: Sybase

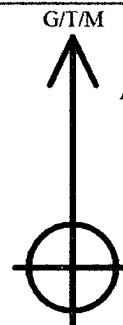
## Survey

| 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 |
|----------|-------------|-------------|-----------|----------|-----------|-----------|------------------|------------|-------------|
| 4106.00  | 12.76       | 307.21      | 3870.68   | 1252.23  | 713.06    | -1029.41  | 2.14             | 1252.25    | 304.71      |
| 4138.00  | 12.24       | 307.70      | 3901.92   | 1259.15  | 717.27    | -1034.91  | 1.66             | 1259.17    | 304.72      |
| 4170.00  | 11.54       | 308.47      | 3933.24   | 1265.73  | 721.33    | -1040.10  | 2.24             | 1265.75    | 304.74      |
| 4234.00  | 10.61       | 307.24      | 3996.04   | 1278.01  | 728.88    | -1049.80  | 1.50             | 1278.03    | 304.77      |
| 4266.00  | 9.82        | 308.53      | 4027.54   | 1283.68  | 732.37    | -1054.28  | 2.57             | 1283.69    | 304.79      |
| 4298.00  | 8.86        | 308.60      | 4059.11   | 1288.86  | 735.60    | -1058.34  | 3.00             | 1288.88    | 304.80      |
| 4361.00  | 6.61        | 315.67      | 4121.54   | 1297.27  | 741.22    | -1064.67  | 3.87             | 1297.28    | 304.85      |
| 4393.00  | 5.92        | 322.04      | 4153.35   | 1300.66  | 743.84    | -1066.97  | 3.06             | 1300.67    | 304.88      |
| 4425.00  | 5.62        | 324.40      | 4185.18   | 1303.72  | 746.42    | -1068.90  | 1.20             | 1303.72    | 304.93      |
| 4457.00  | 4.74        | 324.43      | 4217.05   | 1306.44  | 748.77    | -1070.58  | 2.75             | 1306.44    | 304.97      |
| 4490.00  | 4.24        | 325.30      | 4249.95   | 1308.87  | 750.88    | -1072.07  | 1.53             | 1308.87    | 305.01      |
| 4545.00  | 3.41        | 326.75      | 4304.83   | 1312.30  | 753.92    | -1074.12  | 1.52             | 1312.30    | 305.06      |



**Scientific  
Drilling**

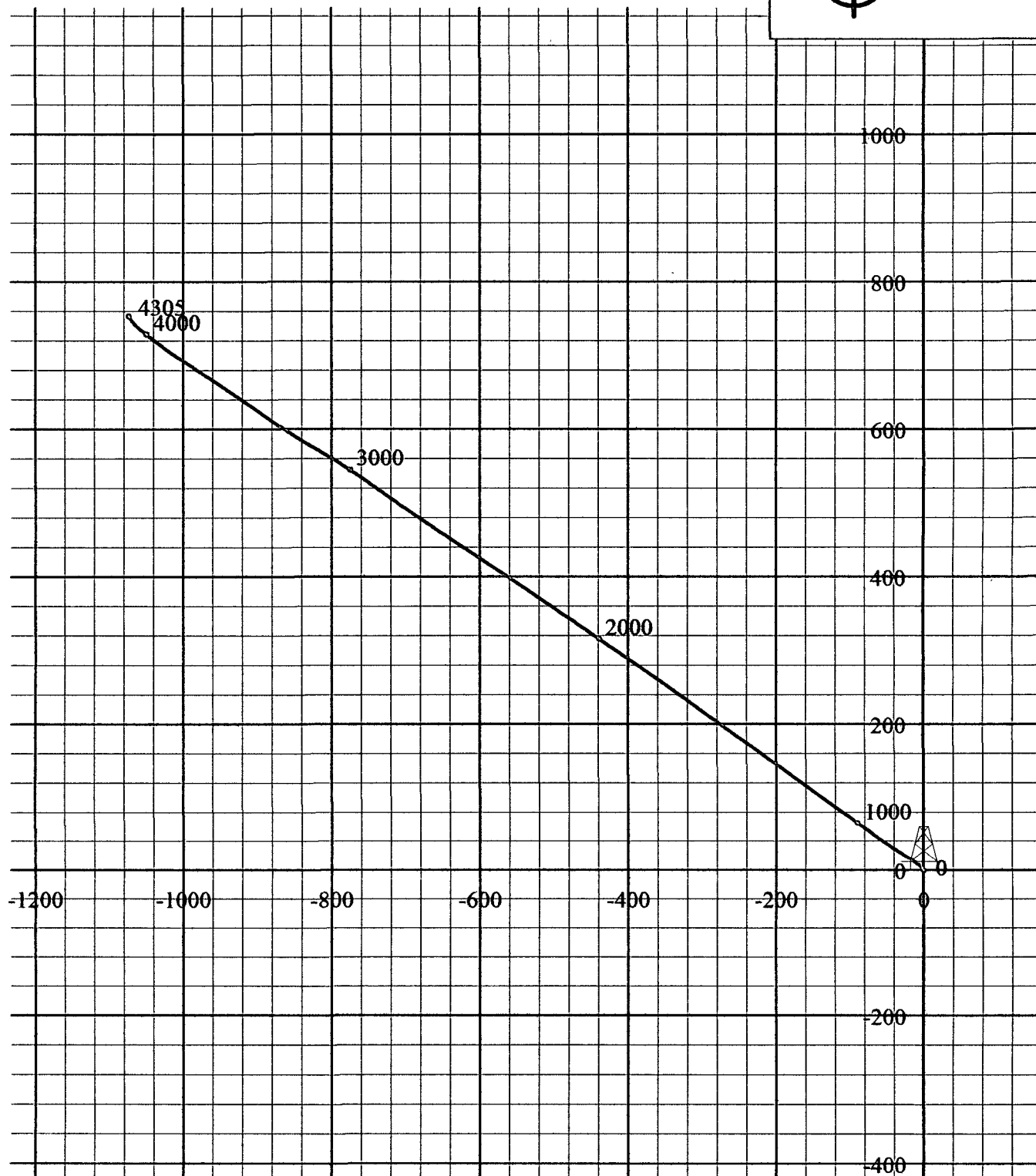
Field: San Juan  
Site: Rio Arriba County, NM  
Well: San Juan 28-6 #103N  
Wellpath: DH - Job #33D0307209  
Survey: 03/13/07-03/18/07



Azimuths to Grid North  
True North: 0.00°  
Magnetic North: 0.00°

Magnetic Field  
Strength: 0nT  
Dip Angle: 0.00°  
Date: 04/15/2007  
Model: igrf2000

South(-)/North(+) [200ft/in]



West(-)/East(+) [200ft/in]