

**McVAY DRILLING COMPANY**

P.O. Box 2450  
Hobbs, New Mexico 88241  
(575) 397-3311  
FAX: 39-DRILL

301015-38478

Well Name and Num: Sirius Fed Com 04H  
Location: Sec. 17, T19S, R31E  
Operator: Devon  
Drilling Contractor: McVay Drilling Company

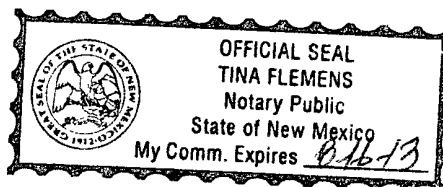
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

| <u>Degrees @</u> | <u>Depth</u> | <u>Degrees @</u> | <u>Depth</u> | <u>Degrees @</u> | <u>Depth</u> |
|------------------|--------------|------------------|--------------|------------------|--------------|
| 1.46             | 375          | 1.80             | 7609         | 94.50            | 11461        |
| 1.60             | 509          | 0.96             | 8108         | 92.30            | 11681        |
| 0.76             | 704          | 1.30             | 8261         | 92.00            | 11959        |
| 2.42             | 1260         | 9.60             | 8356         | 87.50            | 12145        |
| 3.30             | 1775         | 18.20            | 8452         | 90.60            | 12330        |
| 2.73             | 2030         | 25.80            | 8579         | 88.60            | 12516        |
| 2.01             | 2351         | 32.10            | 8642         | 908.00           | 12610        |
| 0.56             | 2795         | 39.60            | 8205         | 90.70            | 12799        |
| 0.65             | 3363         | 50.70            | 8800         | 90.10            | 12892        |
| 1.27             | 3801         | 62.40            | 8896         | 89.80            | 12986        |
| 0.38             | 4213         | 68.70            | 8991         | 91.40            | 13078        |
| 0.18             | 4710         | 81.10            | 9120         |                  |              |
| 0.36             | 5209         | 88.70            | 9503         |                  |              |
| 0.52             | 5704         | 88.10            | 9979         |                  |              |
| 0.70             | 6180         | 87.70            | 10837        |                  |              |
| 1.27             | 7131         | 93.50            | 11213        |                  |              |

By: Hunter Young

Subscribed and sworn to before me this 7th day of February, 2012

Tina Flemens  
Notary Public, Lea County, New Mexico



**A Gyrodata Directional Survey**

for

**DEVON ENERGY**

Lease: SIRIUS 17 FED COM Well: 4H, 4 1/2" DRILLPIPE  
Location: MCVAY #10, EDDY COUNTY, NEW MEXICO

Job Number: MD0112GDM113

Run Date: 06 Jan 2012

Surveyor: Jason Solomon

Calculation Method: MINIMUM CURVATURE

Azimuth Correction:

Gyro: -0.23000 deg to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Survey surface coordinates obtained from: Well Plan/Plot

Horizontal Coordinates Calculated from Well Head Location

Survey Latitude: 32.654400 deg. N Longitude: 103.898925 deg. W

# A Gyrodata Directional Survey

DEVON ENERGY

Lease: SIRIUS 17 FED COM Well: 4H, 4 1/2" DRILLPIPE

Location MCVAY #10, EDDY COUNTY, NEW MEXICO

Job Number: MD0112GDM113

| MEASURED<br>DEPTH<br>feet                                                                                                                        | INCL<br>deg | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 0.00                                                                                                                                             | 0.00        | 0.00            | 0.00                                   | 0.00                      | 0.0 0.0                               | 0.00 N 0.00 E                     |
| 0 TO 8100 FT RATE GYROSCOPIC MULTISHOT DROP RUN INSIDE 4 1/2" DRILLPIPE<br>ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY #10 RKB 20 FT |             |                 |                                        |                           |                                       |                                   |
| 100.00                                                                                                                                           | 0.26        | 258.52          | 0.26                                   | 100.00                    | 0.2 258.5                             | 0.05 S 0.22 W                     |
| 200.00                                                                                                                                           | 0.81        | 258.93          | 0.55                                   | 199.99                    | 1.2 258.8                             | 0.23 S 1.14 W                     |
| 300.00                                                                                                                                           | 1.01        | 263.06          | 0.21                                   | 299.98                    | 2.7 260.2                             | 0.47 S 2.71 W                     |
| 400.00                                                                                                                                           | 1.12        | 263.80          | 0.11                                   | 399.96                    | 4.6 261.5                             | 0.68 S 4.55 W                     |
| 500.00                                                                                                                                           | 0.95        | 272.11          | 0.23                                   | 499.95                    | 6.4 263.2                             | 0.76 S 6.35 W                     |
| 600.00                                                                                                                                           | 0.93        | 294.32          | 0.36                                   | 599.94                    | 7.9 267.2                             | 0.39 S 7.92 W                     |
| 700.00                                                                                                                                           | 0.98        | 306.66          | 0.21                                   | 699.92                    | 9.4 272.8                             | 0.45 N 9.35 W                     |
| 800.00                                                                                                                                           | 1.01        | 320.08          | 0.23                                   | 799.91                    | 10.7 278.8                            | 1.64 N 10.60 W                    |
| 900.00                                                                                                                                           | 1.31        | 334.20          | 0.41                                   | 899.89                    | 12.1 286.0                            | 3.35 N 11.66 W                    |
| 1000.00                                                                                                                                          | 1.55        | 343.12          | 0.33                                   | 999.86                    | 13.8 294.3                            | 5.67 N 12.55 W                    |
| 1100.00                                                                                                                                          | 1.81        | 351.98          | 0.37                                   | 1099.81                   | 15.7 302.9                            | 8.53 N 13.16 W                    |
| 1200.00                                                                                                                                          | 2.02        | 331.19          | 0.43                                   | 1199.76                   | 17.8 311.7                            | 11.85 N 13.29 W                   |
| 1300.00                                                                                                                                          | 2.85        | 28.12           | 1.33                                   | 1299.67                   | 19.9 322.7                            | 15.80 N 12.02 W                   |
| 1400.00                                                                                                                                          | 3.31        | 37.49           | 0.68                                   | 1399.52                   | 22.2 335.9                            | 20.29 N 9.09 W                    |
| 1500.00                                                                                                                                          | 3.45        | 43.43           | 0.38                                   | 1499.35                   | 25.3 348.0                            | 24.76 N 5.26 W                    |
| 1600.00                                                                                                                                          | 3.39        | 47.93           | 0.27                                   | 1599.17                   | 28.9 358.0                            | 28.93 N 1.00 W                    |
| 1700.00                                                                                                                                          | 3.39        | 52.02           | 0.24                                   | 1699.00                   | 32.9 6.1                              | 32.73 N 3.53 E                    |
| 1728.90                                                                                                                                          | 3.17        | 53.73           | 0.83                                   | 1727.85                   | 34.1 8.2                              | 33.73 N 4.84 E                    |
| 1824.00                                                                                                                                          | 3.12        | 57.40           | 0.22                                   | 1822.81                   | 37.8 14.0                             | 36.68 N 9.14 E                    |
| 1919.10                                                                                                                                          | 3.03        | 59.73           | 0.16                                   | 1917.77                   | 41.6 18.9                             | 39.34 N 13.49 E                   |
| 2014.20                                                                                                                                          | 2.19        | 73.59           | 1.10                                   | 2012.77                   | 44.7 22.9                             | 41.12 N 17.41 E                   |

A Gyrodata Directional Survey

DEVON ENERGY

Lease: SIRIUS 17 FED COM Well. 4H, 4 1/2" DRILLPIPE

Location: MCVAY #10, EDDY COUNTY, NEW MEXICO

Job Number: MD0112GDM113

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 2109.30                   | 1.59         | 95.36           | 0.97                                   | 2107.82                   | 46.3 26.2                             | 41.51 N 20.47 E                   |
| 2204.40                   | 1.35         | 112.75          | 0.53                                   | 2202.89                   | 46.9 29.1                             | 40.95 N 22.81 E                   |
| 2299.50                   | 1.21         | 120.45          | 0.23                                   | 2297.97                   | 47.0 31.7                             | 40.01 N 24.71 E                   |
| 2394.60                   | 1.13         | 125.96          | 0.15                                   | 2393.05                   | 47.0 34.1                             | 38.95 N 26.34 E                   |
| 2489.70                   | 0.89         | 126.88          | 0.25                                   | 2488.13                   | 47.0 36.1                             | 37.96 N 27.69 E                   |
| 2584.80                   | 0.68         | 122.97          | 0.23                                   | 2583.22                   | 47.0 37.7                             | 37.21 N 28.75 E                   |
| 2679.90                   | 0.63         | 117.33          | 0.09                                   | 2678.32                   | 47.2 39.0                             | 36.66 N 29.69 E                   |
| 2775.00                   | 0.49         | 114.03          | 0.15                                   | 2773.41                   | 47.4 40.1                             | 36.25 N 30.52 E                   |
| 2870.10                   | 0.43         | 98.53           | 0.14                                   | 2868.51                   | 47.7 40.9                             | 36.04 N 31.25 E                   |
| 2965.20                   | 0.20         | 78.08           | 0.27                                   | 2963.61                   | 48.0 41.4                             | 36.02 N 31.76 E                   |
| 3060.30                   | 0.09         | 127.39          | 0.17                                   | 3058.71                   | 48.2 41.6                             | 36.01 N 31.98 E                   |
| 3155.40                   | 0.15         | 293.34          | 0.25                                   | 3153.81                   | 48.1 41.6                             | 36.01 N 31.93 E                   |
| 3250.50                   | 0.26         | 306.76          | 0.13                                   | 3248.91                   | 48.1 41.2                             | 36.19 N 31.64 E                   |
| 3345.60                   | 0.30         | 311.64          | 0.05                                   | 3344.01                   | 48.1 40.6                             | 36.48 N 31.28 E                   |
| 3440.70                   | 0.28         | 286.89          | 0.13                                   | 3439.10                   | 48.0 40.1                             | 36.72 N 30.88 E                   |
| 3535.80                   | 0.33         | 247.38          | 0.22                                   | 3534.20                   | 47.6 39.7                             | 36.68 N 30.40 E                   |
| 3630.90                   | 0.54         | 233.36          | 0.25                                   | 3629.30                   | 47.0 39.4                             | 36.31 N 29.79 E                   |
| 3726.00                   | 0.70         | 213.00          | 0.28                                   | 3724.39                   | 45.9 39.3                             | 35.55 N 29.11 E                   |
| 3821.10                   | 0.69         | 226.43          | 0.17                                   | 3819.49                   | 44.8 39.3                             | 34.67 N 28.38 E                   |
| 3916.20                   | 0.70         | 226.17          | 0.01                                   | 3914.58                   | 43.7 39.1                             | 33.87 N 27.55 E                   |
| 4011.30                   | 0.63         | 227.98          | 0.08                                   | 4009.67                   | 42.6 38.9                             | 33.12 N 26.74 E                   |
| 4106.40                   | 0.52         | 239.53          | 0.17                                   | 4104.77                   | 41.6 38.6                             | 32.55 N 25.98 E                   |
| 4201.50                   | 0.42         | 240.85          | 0.11                                   | 4199.87                   | 40.9 38.2                             | 32.16 N 25.30 E                   |
| 4296.60                   | 0.34         | 261.28          | 0.16                                   | 4294.96                   | 40.4 37.7                             | 31.95 N 24.72 E                   |
| 4391.70                   | 0.26         | 270.81          | 0.10                                   | 4390.06                   | 40.1 37.2                             | 31.91 N 24.22 E                   |
| 4486.80                   | 0.16         | 271.80          | 0.11                                   | 4485.16                   | 39.9 36.8                             | 31.92 N 23.88 E                   |

# A Gyrodata Directional Survey

DEVON ENERGY

Lease: SIRIUS 17 FED COM Well: 4H, 4 1/2" DRILLPIPE

Location: MCVAY #10, EDDY COUNTY, NEW MEXICO

Job Number MD0112GDM113

| MEASURED<br>DEPTH<br>feet | INCL<br>deg. | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|--------------|-----------------|----------------------------------------|---------------------------|--------------------------------------|-----------------------------------|
| 4581.90                   | 0.30         | 215.73          | 0.26                                   | 4580.26                   | 39.5 36.6                            | 31.72 N 23.60 E                   |
| 4677.00                   | 0.22         | 224.79          | 0.09                                   | 4675.36                   | 39.1 36.6                            | 31.39 N 23.32 E                   |
| 4772.10                   | 0.14         | 262.10          | 0.14                                   | 4770.46                   | 38.8 36.5                            | 31.24 N 23.08 E                   |
| 4867.20                   | 0.20         | 261.02          | 0.06                                   | 4865.56                   | 38.6 36.2                            | 31.20 N 22.80 E                   |
| 4962.30                   | 0.26         | 295.87          | 0.16                                   | 4960.66                   | 38.5 35.7                            | 31.27 N 22.44 E                   |
| 5057.40                   | 0.34         | 309.04          | 0.11                                   | 5055.76                   | 38.5 34.9                            | 31.54 N 22.03 E                   |
| 5152.50                   | 0.42         | 310.79          | 0.08                                   | 5150.86                   | 38.5 34.0                            | 31.95 N 21.55 E                   |
| 5247.60                   | 0.50         | 1.32            | 0.42                                   | 5245.95                   | 38.9 33.2                            | 32.59 N 21.29 E                   |
| 5342.70                   | 0.61         | 15.82           | 0.19                                   | 5341.05                   | 39.8 32.6                            | 33.49 N 21.44 E                   |
| 5437.80                   | 0.41         | 352.86          | 0.30                                   | 5436.14                   | 40.5 32.1                            | 34.31 N 21.54 E                   |
| 5532.90                   | 0.39         | 320.07          | 0.24                                   | 5531.24                   | 40.9 31.4                            | 34.90 N 21.29 E                   |
| 5628.00                   | 0.54         | 297.08          | 0.25                                   | 5626.34                   | 41.0 30.3                            | 35.35 N 20.68 E                   |
| 5723.10                   | 0.68         | 287.53          | 0.18                                   | 5721.43                   | 40.8 28.9                            | 35.73 N 19.74 E                   |
| 5818.20                   | 0.78         | 286.52          | 0.11                                   | 5816.53                   | 40.6 27.2                            | 36.08 N 18.58 E                   |
| 5913.30                   | 0.84         | 290.02          | 0.08                                   | 5911.62                   | 40.4 25.4                            | 36.50 N 17.31 E                   |
| 6008.40                   | 0.82         | 303.36          | 0.20                                   | 6006.71                   | 40.5 23.4                            | 37.12 N 16.08 E                   |
| 6103.50                   | 0.78         | 294.94          | 0.13                                   | 6101.80                   | 40.6 21.6                            | 37.76 N 14.93 E                   |
| 6198.60                   | 0.60         | 301.96          | 0.21                                   | 6196.89                   | 40.8 20.0                            | 38.30 N 13.92 E                   |
| 6293.70                   | 0.42         | 271.12          | 0.34                                   | 6291.99                   | 40.7 18.8                            | 38.57 N 13.15 E                   |
| 6388.80                   | 0.65         | 281.44          | 0.26                                   | 6387.08                   | 40.6 17.6                            | 38.68 N 12.27 E                   |
| 6483.90                   | 0.62         | 282.99          | 0.04                                   | 6482.18                   | 40.5 16.1                            | 38.91 N 11.24 E                   |
| 6579.00                   | 0.34         | 334.55          | 0.51                                   | 6577.27                   | 40.7 15.1                            | 39.28 N 10.62 E                   |
| 6674.10                   | 0.44         | 331.69          | 0.11                                   | 6672.37                   | 41.2 14.5                            | 39.85 N 10.32 E                   |
| 6769.20                   | 0.40         | 304.31          | 0.21                                   | 6767.47                   | 41.6 13.7                            | 40.36 N 9.88 E                    |
| 6864.30                   | 0.73         | 252.33          | 0.61                                   | 6862.57                   | 41.4 12.6                            | 40.37 N 9.02 E                    |
| 6959.40                   | 0.78         | 235.10          | 0.24                                   | 6957.66                   | 40.6 11.2                            | 39.81 N 7.92 E                    |

# A Gyrodata Directional Survey

DEVON ENERGY

Lease: SIRIUS 17 FED COM Well: 4H, 4 1/2" DRILLPIPE

Location: MCVAY #10, EDDY COUNTY, NEW MEXICO

Job Number: MD0112GDM113

| MEASURED<br>DEPTH<br>feet | INCL<br>deg | AZIMUTH<br>deg. | DOGLEG<br>SEVERITY<br>deg /<br>100 ft | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|-------------|-----------------|---------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 7054.50                   | 0.91        | 216.15          | 0.32                                  | 7052.75                   | 39.4 10.1                             | 38.83 N 6.94 E                    |
| 7149.60                   | 1.17        | 219.28          | 0.28                                  | 7147.83                   | 37.9 8.9                              | 37.47 N 5.88 E                    |
| 7244.70                   | 1.57        | 200.17          | 0.63                                  | 7242.90                   | 35.8 7.7                              | 35.49 N 4.82 E                    |
| 7339.80                   | 1.99        | 190.94          | 0.53                                  | 7337.96                   | 32.9 7.1                              | 32.65 N 4.05 E                    |
| 7434.90                   | 1.98        | 189.78          | 0.04                                  | 7433.00                   | 29.6 6.7                              | 29.41 N 3.46 E                    |
| 7530.00                   | 1.79        | 195.01          | 0.27                                  | 7528.05                   | 26.5 6.1                              | 26.36 N 2.80 E                    |
| 7625.10                   | 1.79        | 195.21          | 0.01                                  | 7623.10                   | 23.6 4.9                              | 23.49 N 2.02 E                    |
| 7720.20                   | 2.13        | 186.93          | 0.46                                  | 7718.15                   | 20.4 4.0                              | 20.30 N 1.42 E                    |
| 7815.30                   | 2.41        | 182.60          | 0.35                                  | 7813.17                   | 16.6 3.9                              | 16.55 N 1.12 E                    |
| 7910.40                   | 2.14        | 185.47          | 0.31                                  | 7908.20                   | 12.8 3.8                              | 12.78 N 0.86 E                    |
| 8005.50                   | 1.91        | 190.86          | 0.31                                  | 8003.24                   | 9.5 2.4                               | 9.46 N 0.39 E                     |
| 8100.60                   | 1.91        | 196.09          | 0.18                                  | 8098.29                   | 6.4 356.9                             | 6.38 N 0.35 W                     |

**Final Station Closure: Distance: 6.39 ft Az: 356.87 deg.**

## DEVON ENERGY

WELL NUMBER : SIRIUS 17 FED COM 4H

4 1/2" DRILLPIPE SURVEY

DATE RUN : 060112

JOB NUMBER : MD0112GDM113

| MD     | INC  | AZ     | TVD     | LOCAL<br>N | LOCAL<br>E | V/S  | DOG/<br>100FT |
|--------|------|--------|---------|------------|------------|------|---------------|
| 100    | 0.26 | 258.52 | 100     | -0.05      | -0.22      | 0    | 0.26          |
| 200    | 0.81 | 258.93 | 199.99  | -0.23      | -1.14      | -0.2 | 0.55          |
| 300    | 1.01 | 263.06 | 299.98  | -0.47      | -2.71      | -0.5 | 0.21          |
| 400    | 1.12 | 263.8  | 399.96  | -0.68      | -4.55      | -0.7 | 0.11          |
| 500    | 0.95 | 272.11 | 499.95  | -0.76      | -6.35      | -0.8 | 0.23          |
| 600    | 0.93 | 294.32 | 599.94  | -0.39      | -7.92      | -0.4 | 0.36          |
| 700    | 0.98 | 306.66 | 699.92  | 0.45       | -9.35      | 0.5  | 0.21          |
| 800    | 1.01 | 320.08 | 799.91  | 1.64       | -10.6      | 1.6  | 0.23          |
| 900    | 1.31 | 334.2  | 899.89  | 3.35       | -11.66     | 3.3  | 0.41          |
| 1000   | 1.55 | 343.12 | 999.86  | 5.67       | -12.55     | 5.7  | 0.33          |
| 1100   | 1.81 | 351.98 | 1099.81 | 8.53       | -13.16     | 8.5  | 0.37          |
| 1200   | 2.02 | 3.19   | 1199.76 | 11.85      | -13.29     | 11.9 | 0.43          |
| 1300   | 2.85 | 28.12  | 1299.67 | 15.8       | -12.02     | 15.8 | 1.33          |
| 1400   | 3.31 | 37.49  | 1399.52 | 20.29      | -9.09      | 20.3 | 0.68          |
| 1500   | 3.45 | 43.43  | 1499.35 | 24.76      | -5.26      | 24.8 | 0.38          |
| 1600   | 3.39 | 47.93  | 1599.17 | 28.93      | -1         | 28.9 | 0.27          |
| 1700   | 3.39 | 52.02  | 1699    | 32.73      | 3.53       | 32.7 | 0.24          |
| 1728.9 | 3.17 | 53.73  | 1727.85 | 33.73      | 4.84       | 33.7 | 0.83          |
| 1824   | 3.12 | 57.4   | 1822.81 | 36.68      | 9.14       | 36.7 | 0.22          |
| 1919.1 | 3.03 | 59.73  | 1917.77 | 39.34      | 13.49      | 39.3 | 0.16          |
| 2014.2 | 2.19 | 73.59  | 2012.77 | 41.12      | 17.41      | 41.1 | 1.1           |
| 2109.3 | 1.59 | 95.36  | 2107.82 | 41.51      | 20.47      | 41.5 | 0.97          |
| 2204.4 | 1.35 | 112.75 | 2202.89 | 40.95      | 22.81      | 41   | 0.53          |
| 2299.5 | 1.21 | 120.45 | 2297.97 | 40.01      | 24.71      | 40   | 0.23          |
| 2394.6 | 1.13 | 125.96 | 2393.05 | 38.95      | 26.34      | 39   | 0.15          |
| 2489.7 | 0.89 | 126.88 | 2488.13 | 37.96      | 27.69      | 38   | 0.25          |
| 2584.8 | 0.68 | 122.97 | 2583.22 | 37.21      | 28.75      | 37.2 | 0.23          |
| 2679.9 | 0.63 | 117.33 | 2678.32 | 36.66      | 29.69      | 36.7 | 0.09          |
| 2775   | 0.49 | 114.03 | 2773.41 | 36.25      | 30.52      | 36.3 | 0.15          |
| 2870.1 | 0.43 | 98.53  | 2868.51 | 36.04      | 31.25      | 36   | 0.14          |
| 2965.2 | 0.2  | 78.08  | 2963.61 | 36.02      | 31.76      | 36   | 0.27          |
| 3060.3 | 0.09 | 127.39 | 3058.71 | 36.01      | 31.98      | 36   | 0.17          |
| 3155.4 | 0.15 | 293.34 | 3153.81 | 36.01      | 31.93      | 36   | 0.25          |
| 3250.5 | 0.26 | 306.76 | 3248.91 | 36.19      | 31.64      | 36.2 | 0.13          |
| 3345.6 | 0.3  | 311.64 | 3344.01 | 36.48      | 31.28      | 36.5 | 0.05          |
| 3440.7 | 0.28 | 286.89 | 3439.1  | 36.72      | 30.88      | 36.7 | 0.13          |
| 3535.8 | 0.33 | 247.38 | 3534.2  | 36.68      | 30.4       | 36.7 | 0.22          |
| 3630.9 | 0.54 | 233.36 | 3629.3  | 36.31      | 29.79      | 36.3 | 0.25          |
| 3726   | 0.7  | 213    | 3724.39 | 35.55      | 29.11      | 35.6 | 0.28          |
| 3821.1 | 0.69 | 226.43 | 3819.49 | 34.67      | 28.38      | 34.7 | 0.17          |

|        |      |        |         |       |       |      |      |
|--------|------|--------|---------|-------|-------|------|------|
| 3916.2 | 0.7  | 226.17 | 3914.58 | 33.87 | 27.55 | 33.9 | 0.01 |
| 4011.3 | 0.63 | 227.98 | 4009.67 | 33.12 | 26.74 | 33.1 | 0.08 |
| 4106.4 | 0.52 | 239.53 | 4104.77 | 32.55 | 25.98 | 32.6 | 0.17 |
| 4201.5 | 0.42 | 240.85 | 4199.87 | 32.16 | 25.3  | 32.2 | 0.11 |
| 4296.6 | 0.34 | 261.28 | 4294.96 | 31.95 | 24.72 | 31.9 | 0.16 |
| 4391.7 | 0.26 | 270.81 | 4390.06 | 31.91 | 24.22 | 31.9 | 0.1  |
| 4486.8 | 0.16 | 271.8  | 4485.16 | 31.92 | 23.88 | 31.9 | 0.11 |
| 4581.9 | 0.3  | 215.73 | 4580.26 | 31.72 | 23.6  | 31.7 | 0.26 |
| 4677   | 0.22 | 224.79 | 4675.36 | 31.39 | 23.32 | 31.4 | 0.09 |
| 4772.1 | 0.14 | 262.1  | 4770.46 | 31.24 | 23.08 | 31.2 | 0.14 |
| 4867.2 | 0.2  | 261.02 | 4865.56 | 31.2  | 22.8  | 31.2 | 0.06 |
| 4962.3 | 0.26 | 295.87 | 4960.66 | 31.27 | 22.44 | 31.3 | 0.16 |
| 5057.4 | 0.34 | 309.04 | 5055.76 | 31.54 | 22.03 | 31.5 | 0.11 |
| 5152.5 | 0.42 | 310.79 | 5150.86 | 31.95 | 21.55 | 31.9 | 0.08 |
| 5247.6 | 0.5  | 1.32   | 5245.95 | 32.59 | 21.29 | 32.6 | 0.42 |
| 5342.7 | 0.61 | 15.82  | 5341.05 | 33.49 | 21.44 | 33.5 | 0.19 |
| 5437.8 | 0.41 | 352.86 | 5436.14 | 34.31 | 21.54 | 34.3 | 0.3  |
| 5532.9 | 0.39 | 320.07 | 5531.24 | 34.9  | 21.29 | 34.9 | 0.24 |
| 5628   | 0.54 | 297.08 | 5626.34 | 35.35 | 20.68 | 35.4 | 0.25 |
| 5723.1 | 0.68 | 287.53 | 5721.43 | 35.73 | 19.74 | 35.7 | 0.18 |
| 5818.2 | 0.78 | 286.52 | 5816.53 | 36.08 | 18.58 | 36.1 | 0.11 |
| 5913.3 | 0.84 | 290.02 | 5911.62 | 36.5  | 17.31 | 36.5 | 0.08 |
| 6008.4 | 0.82 | 303.36 | 6006.71 | 37.12 | 16.08 | 37.1 | 0.2  |
| 6103.5 | 0.78 | 294.94 | 6101.8  | 37.76 | 14.93 | 37.8 | 0.13 |
| 6198.6 | 0.6  | 301.96 | 6196.89 | 38.3  | 13.92 | 38.3 | 0.21 |
| 6293.7 | 0.42 | 271.12 | 6291.99 | 38.57 | 13.15 | 38.6 | 0.34 |
| 6388.8 | 0.65 | 281.44 | 6387.08 | 38.68 | 12.27 | 38.7 | 0.26 |
| 6483.9 | 0.62 | 282.99 | 6482.18 | 38.91 | 11.24 | 38.9 | 0.04 |
| 6579   | 0.34 | 334.55 | 6577.27 | 39.28 | 10.62 | 39.3 | 0.51 |
| 6674.1 | 0.44 | 331.69 | 6672.37 | 39.85 | 10.32 | 39.9 | 0.11 |
| 6769.2 | 0.4  | 304.31 | 6767.47 | 40.36 | 9.88  | 40.4 | 0.21 |
| 6864.3 | 0.73 | 252.33 | 6862.57 | 40.37 | 9.02  | 40.4 | 0.61 |
| 6959.4 | 0.78 | 235.1  | 6957.66 | 39.81 | 7.92  | 39.8 | 0.24 |
| 7054.5 | 0.91 | 216.15 | 7052.75 | 38.83 | 6.94  | 38.8 | 0.32 |
| 7149.6 | 1.17 | 219.28 | 7147.83 | 37.47 | 5.88  | 37.5 | 0.28 |
| 7244.7 | 1.57 | 200.17 | 7242.9  | 35.49 | 4.82  | 35.5 | 0.63 |
| 7339.8 | 1.99 | 190.94 | 7337.96 | 32.65 | 4.05  | 32.7 | 0.53 |
| 7434.9 | 1.98 | 189.78 | 7433    | 29.41 | 3.46  | 29.4 | 0.04 |
| 7530   | 1.79 | 195.01 | 7528.05 | 26.36 | 2.8   | 26.4 | 0.27 |
| 7625.1 | 1.79 | 195.21 | 7623.1  | 23.49 | 2.02  | 23.5 | 0.01 |
| 7720.2 | 2.13 | 186.93 | 7718.15 | 20.3  | 1.42  | 20.3 | 0.46 |
| 7815.3 | 2.41 | 182.6  | 7813.17 | 16.55 | 1.12  | 16.5 | 0.35 |
| 7910.4 | 2.14 | 185.47 | 7908.2  | 12.78 | 0.86  | 12.8 | 0.31 |
| 8005.5 | 1.91 | 190.86 | 8003.24 | 9.46  | 0.39  | 9.5  | 0.31 |
| 8100.6 | 1.91 | 196.09 | 8098.29 | 6.38  | -0.35 | 6.4  | 0.18 |



CUDD Drilling & Measurement Services  
3201 E. Loop 250 N.  
Midland, TX 79705  
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## SURVEY CERTIFICATION SHEET

STATE OF TEXAS  
COUNTY OF MIDLAND

I, Daniel Caruthers, certify that; I am employed by CUDD Drilling and Measurement Services; that I did on the day(s) of 01-05-2012 to 01-17-2012 conduct or supervise the taking of MWD surveys from a depth of 8,134 feet to a depth of 13,151 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by CUDD Drilling and Measurement Services.; that I am authorized and qualified to make this report; that this survey was conducted at the request of Devon Energy Production Co, LP for the Sirius 17 Fed Com 4H well, in Eddy Co, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by CUDD Drilling and Measurement Services.

A handwritten signature in black ink, appearing to read "Dan Caruthers", written over a horizontal line.

Daniel Caruthers  
MWD Engineer



## **Devon Energy Production Co, LP**

**Eddy Co., New Mexico (Nad 83)**

**Sirius 17 Fed Com 4H**

**Sirius 17 Fed Com 4H**

**30-015-38478**

**Lateral #1**

**Survey: Survey #2**

## **Standard Survey Report**

**17 January, 2012**



# CUDD Drilling and Measurement Survey Report

|                  |                                |                                     |                                       |
|------------------|--------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Devon Energy Production Co, LP | <b>Local Co-ordinate Reference:</b> | Site Sinus 17 Fed Com 4H              |
| <b>Project:</b>  | Eddy Co., New Mexico (Nad 83)  | <b>TVD Reference:</b>               | WELL @ 3439.00ft (Original Well Elev) |
| <b>Site:</b>     | Sirius 17 Fed Com 4H           | <b>MD Reference:</b>                | WELL @ 3439.00ft (Original Well Elev) |
| <b>Well:</b>     | Sinus 17 Fed Com 4H            | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Lateral #1                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Lateral #1                     | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                       |                         |                        |                       |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (%/100usft) | Build Rate (%/100usft) | Turn Rate (%/100usft) |
| 8,324.00            | 6.80            | 91.90       | 8,321.43            | -0.28      | 1.92       | 1.92                  | 11.84                   | 10.97                  | -53.55                |
| 8,356.00            | 9.60            | 85.00       | 8,353.10            | -0.11      | 6.47       | 6.47                  | 9.26                    | 8.75                   | -21.56                |
| 8,388.00            | 12.40           | 81.30       | 8,384.51            | 0.64       | 12.53      | 12.53                 | 9.02                    | 8.75                   | -11.56                |
| 8,420.00            | 15.30           | 81.90       | 8,415.58            | 1.76       | 20.11      | 20.12                 | 9.07                    | 9.06                   | 1.88                  |
| 8,452.00            | 18.20           | 84.10       | 8,446.22            | 2.87       | 29.26      | 29.27                 | 9.28                    | 9.06                   | 6.88                  |
| 8,483.00            | 20.20           | 84.90       | 8,475.49            | 3.84       | 39.41      | 39.43                 | 6.51                    | 6.45                   | 2.58                  |
| 8,515.00            | 21.80           | 86.30       | 8,505.36            | 4.72       | 50.84      | 50.87                 | 5.24                    | 5.00                   | 4.38                  |
| 8,547.00            | 23.50           | 87.30       | 8,534.89            | 5.40       | 63.14      | 63.17                 | 5.45                    | 5.31                   | 3.13                  |
| 8,579.00            | 25.80           | 90.00       | 8,563.98            | 5.70       | 76.48      | 76.51                 | 8.00                    | 7.19                   | 8.44                  |
| 8,610.00            | 28.80           | 90.40       | 8,591.52            | 5.65       | 90.70      | 90.73                 | 9.70                    | 9.68                   | 1.29                  |
| 8,642.00            | 32.10           | 89.70       | 8,619.10            | 5.64       | 106.91     | 106.94                | 10.37                   | 10.31                  | -2.19                 |
| 8,673.00            | 35.80           | 89.50       | 8,644.81            | 5.76       | 124.22     | 124.25                | 11.94                   | 11.94                  | -0.65                 |
| 8,705.00            | 39.20           | 90.20       | 8,670.20            | 5.81       | 143.70     | 143.73                | 10.71                   | 10.63                  | 2.19                  |
| 8,737.00            | 42.90           | 89.90       | 8,694.33            | 5.79       | 164.71     | 164.74                | 11.58                   | 11.56                  | -0.94                 |
| 8,768.00            | 46.70           | 89.40       | 8,716.32            | 5.93       | 186.55     | 186.58                | 12.31                   | 12.26                  | -1.61                 |
| 8,800.00            | 50.70           | 89.40       | 8,737.43            | 6.18       | 210.58     | 210.61                | 12.50                   | 12.50                  | 0.00                  |
| 8,832.00            | 54.70           | 88.30       | 8,756.82            | 6.70       | 236.03     | 236.06                | 12.80                   | 12.50                  | -3.44                 |
| 8,864.00            | 59.00           | 87.80       | 8,774.32            | 7.61       | 262.80     | 262.84                | 13.50                   | 13.44                  | -1.56                 |
| 8,896.00            | 62.40           | 88.90       | 8,789.98            | 8.41       | 290.69     | 290.73                | 11.04                   | 10.63                  | 3.44                  |
| 8,928.00            | 65.80           | 90.10       | 8,803.95            | 8.66       | 319.47     | 319.51                | 11.15                   | 10.63                  | 3.75                  |
| 8,959.00            | 68.20           | 91.00       | 8,816.06            | 8.38       | 348.00     | 348.04                | 8.19                    | 7.74                   | 2.90                  |
| 8,991.00            | 68.70           | 91.40       | 8,827.82            | 7.76       | 377.76     | 377.79                | 1.95                    | 1.56                   | 1.25                  |
| 9,025.00            | 69.90           | 91.70       | 8,839.84            | 6.90       | 409.55     | 409.58                | 3.62                    | 3.53                   | 0.88                  |
| 9,057.00            | 72.40           | 91.00       | 8,850.17            | 6.19       | 439.82     | 439.85                | 8.08                    | 7.81                   | -2.19                 |
| 9,089.00            | 76.50           | 89.80       | 8,858.75            | 5.97       | 470.64     | 470.67                | 13.31                   | 12.81                  | -3.75                 |
| 9,120.00            | 81.10           | 88.90       | 8,864.77            | 6.32       | 501.04     | 501.07                | 15.11                   | 14.84                  | -2.90                 |
| 9,122.00            | 81.50           | 88.00       | 8,865.07            | 6.37       | 503.02     | 503.05                | 48.77                   | 20.00                  | -45.00                |
| 9,217.00            | 88.10           | 87.00       | 8,873.68            | 10.50      | 597.48     | 597.53                | 7.03                    | 6.95                   | -1.05                 |
| 9,312.00            | 87.70           | 88.60       | 8,877.16            | 14.15      | 692.35     | 692.41                | 1.73                    | -0.42                  | 1.68                  |
| 9,408.00            | 88.30           | 88.20       | 8,880.51            | 16.83      | 788.25     | 788.33                | 0.75                    | 0.63                   | -0.42                 |
| 9,503.00            | 88.70           | 88.40       | 8,883.00            | 19.64      | 883.17     | 883.27                | 0.47                    | 0.42                   | 0.21                  |
| 9,593.00            | 89.20           | 89.10       | 8,884.65            | 21.61      | 973.14     | 973.24                | 0.96                    | 0.56                   | 0.78                  |
| 9,693.00            | 88.70           | 90.10       | 8,886.48            | 22.30      | 1,073.12   | 1,073.22              | 1.12                    | -0.50                  | 1.00                  |
| 9,789.00            | 88.80           | 89.50       | 8,888.57            | 22.64      | 1,169.09   | 1,169.20              | 0.63                    | 0.10                   | -0.63                 |
| 9,884.00            | 88.20           | 89.70       | 8,891.06            | 23.30      | 1,264.06   | 1,264.17              | 0.67                    | -0.63                  | 0.21                  |
| 9,979.00            | 88.10           | 90.20       | 8,894.13            | 23.39      | 1,359.01   | 1,359.12              | 0.54                    | -0.11                  | 0.53                  |
| 10,075.00           | 86.50           | 90.20       | 8,898.65            | 23.05      | 1,454.90   | 1,455.00              | 1.67                    | -1.67                  | 0.00                  |
| 10,170.00           | 87.30           | 89.70       | 8,903.79            | 23.13      | 1,549.76   | 1,549.86              | 0.99                    | 0.84                   | -0.53                 |
| 10,265.00           | 88.70           | 89.50       | 8,907.10            | 23.80      | 1,644.69   | 1,644.80              | 1.49                    | 1.47                   | -0.21                 |
| 10,360.00           | 87.90           | 89.30       | 8,909.92            | 24.79      | 1,739.65   | 1,739.76              | 0.87                    | -0.84                  | -0.21                 |
| 10,456.00           | 86.10           | 88.70       | 8,914.94            | 26.46      | 1,835.50   | 1,835.61              | 1.98                    | -1.88                  | -0.63                 |
| 10,551.00           | 85.80           | 89.00       | 8,921.65            | 28.37      | 1,930.24   | 1,930.37              | 0.45                    | -0.32                  | 0.32                  |
| 10,646.00           | 85.70           | 90.70       | 8,928.69            | 28.61      | 2,024.97   | 2,025.10              | 1.79                    | -0.11                  | 1.79                  |



# CUDD Drilling and Measurement Survey Report

|                  |                                |                                     |                                       |
|------------------|--------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Devon Energy Production Co, LP | <b>Local Co-ordinate Reference:</b> | Site Sirius 17 Fed Com 4H             |
| <b>Project:</b>  | Eddy Co., New Mexico (Nad 83)  | <b>TVD Reference:</b>               | WELL @ 3439.00ft (Original Well Elev) |
| <b>Site:</b>     | Sinus 17 Fed Com 4H            | <b>MD Reference:</b>                | WELL @ 3439 00ft (Original Well Elev) |
| <b>Well:</b>     | Sinus 17 Fed Com 4H            | <b>North Reference:</b>             | Grid                                  |
| <b>Wellbore:</b> | Lateral #1                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | Lateral #1                     | <b>Database:</b>                    | EDM 5000.1 Single User Db             |

| Survey              |                 |             |                     |            |            |                       |                         |                        |                       |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (%/100usft) | Build Rate (%/100usft) | Turn Rate (%/100usft) |
| 10,742.00           | 86.20           | 90.40       | 8,935.48            | 27.69      | 2,120.73   | 2,120.85              | 0.61                    | 0.52                   | -0.31                 |
| 10,837.00           | 87.70           | 90.30       | 8,940.53            | 27.11      | 2,215.59   | 2,215.71              | 1.58                    | 1.58                   | -0.11                 |
| 10,931.00           | 88.50           | 91.20       | 8,943.65            | 25.89      | 2,309.53   | 2,309.64              | 1.28                    | 0.85                   | 0.96                  |
| 11,024.00           | 89.70           | 91.60       | 8,945.11            | 23.61      | 2,402.49   | 2,402.58              | 1.36                    | 1.29                   | 0.43                  |
| 11,118.00           | 91.60           | 91.60       | 8,944.04            | 20.99      | 2,496.44   | 2,496.52              | 2.02                    | 2.02                   | 0.00                  |
| 11,213.00           | 93.50           | 91.60       | 8,939.81            | 18.34      | 2,591.31   | 2,591.37              | 2.00                    | 2.00                   | 0.00                  |
| 11,307.00           | 94.60           | 91.40       | 8,933.18            | 15.88      | 2,685.04   | 2,685.08              | 1.19                    | 1.17                   | -0.21                 |
| 11,401.00           | 94.50           | 89.30       | 8,925.72            | 15.31      | 2,778.73   | 2,778.78              | 2.23                    | -0.11                  | -2.23                 |
| 11,495.00           | 94.00           | 90.50       | 8,918.75            | 15.48      | 2,872.47   | 2,872.51              | 1.38                    | -0.53                  | 1.28                  |
| 11,589.00           | 92.40           | 89.50       | 8,913.50            | 15.48      | 2,966.32   | 2,966.36              | 2.01                    | -1.70                  | -1.06                 |
| 11,681.00           | 92.30           | 88.90       | 8,909.73            | 16.76      | 3,058.24   | 3,058.28              | 0.66                    | -0.11                  | -0.65                 |
| 11,774.00           | 93.60           | 88.50       | 8,904.95            | 18.87      | 3,151.09   | 3,151.14              | 1.46                    | 1.40                   | -0.43                 |
| 11,866.00           | 94.00           | 87.80       | 8,898.85            | 21.83      | 3,242.84   | 3,242.91              | 0.87                    | 0.43                   | -0.76                 |
| 11,959.00           | 92.00           | 88.20       | 8,893.98            | 25.07      | 3,335.65   | 3,335.73              | 2.19                    | -2.15                  | 0.43                  |
| 12,052.00           | 91.60           | 87.50       | 8,891.06            | 28.56      | 3,428.53   | 3,428.64              | 0.87                    | -0.43                  | -0.75                 |
| 12,145.00           | 91.50           | 87.50       | 8,888.54            | 32.61      | 3,521.41   | 3,521.54              | 0.11                    | -0.11                  | 0.00                  |
| 12,237.00           | 90.90           | 88.70       | 8,886.62            | 35.66      | 3,613.34   | 3,613.48              | 1.46                    | -0.65                  | 1.30                  |
| 12,330.00           | 90.60           | 88.90       | 8,885.40            | 37.61      | 3,706.31   | 3,706.46              | 0.39                    | -0.32                  | 0.22                  |
| 12,424.00           | 91.90           | 88.40       | 8,883.35            | 39.82      | 3,800.26   | 3,800.42              | 1.48                    | 1.38                   | -0.53                 |
| 12,516.00           | 92.10           | 88.60       | 8,880.14            | 42.23      | 3,892.17   | 3,892.35              | 0.31                    | 0.22                   | 0.22                  |
| 12,610.00           | 90.80           | 89.30       | 8,877.76            | 43.95      | 3,986.12   | 3,986.31              | 1.57                    | -1.38                  | 0.74                  |
| 12,705.00           | 90.90           | 89.10       | 8,876.35            | 45.28      | 4,081.10   | 4,081.29              | 0.24                    | 0.11                   | -0.21                 |
| 12,799.00           | 90.70           | 88.80       | 8,875.04            | 47.00      | 4,175.08   | 4,175.28              | 0.38                    | -0.21                  | -0.32                 |
| 12,892.00           | 90.70           | 88.90       | 8,873.90            | 48.87      | 4,268.05   | 4,268.26              | 0.11                    | 0.00                   | 0.11                  |
| 12,986.00           | 90.80           | 89.80       | 8,872.67            | 49.93      | 4,362.04   | 4,362.25              | 0.96                    | 0.11                   | 0.96                  |
| 13,078.00           | 91.40           | 89.80       | 8,870.91            | 50.25      | 4,454.02   | 4,454.23              | 0.65                    | 0.65                   | 0.00                  |
| 13,151.00           | 91.40           | 89.80       | 8,869.12            | 50.51      | 4,527.00   | 4,527.21              | 0.00                    | 0.00                   | 0.00                  |
| Last CUDD survey    |                 |             |                     |            |            |                       |                         |                        |                       |
| 13,215.00           | 91.70           | 89.60       | 8,867.39            | 50.84      | 4,590.97   | 4,591.19              | 0.56                    | 0.47                   | -0.31                 |
| Projection to Bit   |                 |             |                     |            |            |                       |                         |                        |                       |

| Survey Annotations  |                     |                   |            |                   |
|---------------------|---------------------|-------------------|------------|-------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment           |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                   |
| 8,100.60            | 8,098.29            | 6.38              | -0.35      | Tie-in to Gyro    |
| 8,134.00            | 8,131.67            | 5.33              | -0.61      | First CUDD survey |
| 13,151.00           | 8,869.12            | 50.51             | 4,527.00   | Last CUDD survey  |
| 13,215.00           | 8,867.39            | 50.84             | 4,590.97   | Projection to Bit |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_