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MS Directional Survey Data Certification

**HOBBS OCD**

**SEP 28 2018**

**RECEIVED**

MS Directional Job Number: DDMO-180417  
Survey Type: MWD  
Operating Company: Matador Production Company  
Well Name & Number: Irvin Wall State COM 131H  
Location: Lea County, NM  
API Number: 30-025-44659  
Tie In Depth: Surface  
Surveyed Depths: 201' – 16,419' MD  
Projected TD Survey: 16,475' MD  
Dates Performed: 04/25/2018 – 05/18/2018

I certify that the data is true, correct and complete and within the limitations of the tool set forth by MS Directional; that I am authorized and qualified to make this report and that I have reviewed this report and find it conforms to the principles and procedures as set forth by MS Directional.

Digitally signed by:

Nathaniel LeBlanc

MWD Surveyor Name:

Nate LeBlanc

Date:

06-07-2018

Email:

nleblanc@msdir.com

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|                            |               |                            |                |             |                   |             |                       |                     |         |                     |                          |          |  |
|----------------------------|---------------|----------------------------|----------------|-------------|-------------------|-------------|-----------------------|---------------------|---------|---------------------|--------------------------|----------|--|
| Company:                   |               | Matador Production Company |                |             |                   |             |                       |                     |         |                     |                          |          |  |
| Well Name:                 |               | Irwin Wall State COM 131H  |                |             |                   |             |                       |                     |         |                     |                          |          |  |
| Location:                  |               | Lea County, NM             |                |             |                   |             |                       |                     |         |                     |                          |          |  |
| Rig:                       |               | Patterson #282             |                |             |                   |             | Magnetic Declination: |                     | 6.35    |                     | REFERENCED TO GRID NORTH |          |  |
| Job Number:                |               | DDMO-180417                |                |             |                   |             |                       |                     |         |                     |                          |          |  |
| API #:                     |               | 30-025-44659               |                |             |                   |             |                       |                     |         |                     |                          |          |  |
| Vertical Section Azimuth:  |               |                            |                |             | 359.45            |             |                       |                     |         | Proposed Direction: |                          | 359.45   |  |
| Survey Calculation Method: |               |                            |                |             | Minimum Curvature |             |                       |                     |         |                     |                          |          |  |
| PTB:                       | MD            |                            | INC            |             | AZM               |             | TVD                   |                     | N/S     |                     | E/W                      |          |  |
|                            | 16,475        |                            | 96.1           |             | 359.8             |             | 11790.84              |                     | 4735.91 |                     | -303.46                  |          |  |
|                            |               |                            |                |             |                   |             |                       |                     |         | 4738.61             |                          | RECEIVED |  |
| #                          | Depth<br>Feet | Inc<br>Degrees             | Azm<br>Degrees | TVD<br>Feet | N/S<br>Feet       | E/W<br>Feet | Surface<br>Vert Sec   | Closure<br>Distance | Azm     | DLS/<br>100         | BUR/<br>100'             |          |  |
| TIE IN                     | 0             | 0.00                       | 0.00           | 0.00        | 0.00              | 0.00        |                       |                     | 0.00    |                     |                          |          |  |
| 1                          | 201           | 1.10                       | 99.20          | 200.99      | -0.31             | 1.90        | -0.33                 | 1.93                | 99.20   | 0.55                | 0.55                     |          |  |
| 2                          | 383           | 0.50                       | 67.40          | 382.97      | -0.28             | 4.36        | -0.32                 | 4.37                | 93.71   | 0.40                | -0.33                    |          |  |
| 3                          | 570           | 0.10                       | 116.00         | 569.97      | -0.04             | 5.26        | -0.09                 | 5.26                | 90.44   | 0.24                | -0.21                    |          |  |
| 4                          | 780           | 2.10                       | 242.00         | 779.92      | -1.93             | 2.03        | -1.95                 | 2.80                | 133.53  | 1.03                | 0.95                     |          |  |
| 5                          | 880           | 2.60                       | 238.70         | 879.84      | -3.97             | -1.53       | -3.95                 | 4.25                | 201.05  | 0.52                | 0.50                     |          |  |
| 6                          | 1,037         | 3.90                       | 235.10         | 1036.58     | -8.87             | -8.95       | -8.78                 | 12.60               | 225.25  | 0.84                | 0.83                     |          |  |
| 7                          | 1,226         | 4.30                       | 241.90         | 1225.10     | -15.89            | -20.47      | -15.69                | 25.91               | 232.19  | 0.33                | 0.21                     |          |  |
| 8                          | 1,415         | 6.10                       | 232.40         | 1413.32     | -25.35            | -34.68      | -25.02                | 42.96               | 233.83  | 1.05                | 0.95                     |          |  |
| 9                          | 1,604         | 6.30                       | 235.00         | 1601.21     | -37.43            | -51.13      | -36.93                | 63.36               | 233.80  | 0.18                | 0.11                     |          |  |
| 10                         | 1,793         | 5.30                       | 243.10         | 1789.24     | -47.32            | -67.41      | -46.67                | 82.36               | 234.93  | 0.68                | -0.53                    |          |  |
| 11                         | 1,982         | 5.60                       | 226.70         | 1977.40     | -57.60            | -81.91      | -56.81                | 100.13              | 234.88  | 0.84                | 0.16                     |          |  |
| 12                         | 2,171         | 4.40                       | 237.40         | 2165.68     | -67.83            | -94.73      | -66.92                | 116.51              | 234.39  | 0.80                | -0.63                    |          |  |
| 13                         | 2,360         | 4.50                       | 213.80         | 2354.13     | -77.90            | -104.96     | -76.89                | 130.71              | 233.42  | 0.96                | 0.05                     |          |  |
| 14                         | 2,550         | 3.60                       | 211.40         | 2543.65     | -89.18            | -112.21     | -88.10                | 143.34              | 231.52  | 0.48                | -0.47                    |          |  |
| 15                         | 2,739         | 3.60                       | 210.00         | 2732.28     | -99.39            | -118.27     | -98.25                | 154.49              | 229.96  | 0.05                | 0.00                     |          |  |
| 16                         | 2,928         | 4.20                       | 218.80         | 2920.84     | -109.92           | -125.57     | -108.71               | 166.89              | 228.80  | 0.45                | 0.32                     |          |  |
| 17                         | 3,117         | 3.30                       | 218.80         | 3109.44     | -119.55           | -133.32     | -118.27               | 179.07              | 228.12  | 0.48                | -0.48                    |          |  |
| 18                         | 3,305         | 3.10                       | 222.00         | 3297.14     | -127.55           | -140.11     | -126.20               | 189.47              | 227.69  | 0.14                | -0.11                    |          |  |
| 19                         | 3,494         | 2.00                       | 229.70         | 3485.95     | -133.48           | -146.05     | -132.07               | 197.85              | 227.57  | 0.61                | -0.58                    |          |  |
| 20                         | 3,684         | 0.80                       | 222.50         | 3675.89     | -136.60           | -149.47     | -135.16               | 202.49              | 227.58  | 0.64                | -0.63                    |          |  |
| 21                         | 3,875         | 2.50                       | 228.80         | 3866.81     | -140.33           | -153.51     | -138.85               | 207.98              | 227.57  | 0.89                | 0.89                     |          |  |
| 22                         | 4,064         | 4.90                       | 232.60         | 4055.40     | -147.95           | -163.02     | -146.38               | 220.15              | 227.78  | 1.28                | 1.27                     |          |  |
| 23                         | 4,253         | 5.50                       | 237.30         | 4243.62     | -157.74           | -177.06     | -156.04               | 237.13              | 228.30  | 0.39                | 0.32                     |          |  |
| 24                         | 4,442         | 5.70                       | 233.90         | 4431.72     | -168.17           | -192.26     | -166.31               | 255.43              | 228.82  | 0.20                | 0.11                     |          |  |
| 25                         | 4,630         | 3.80                       | 225.50         | 4619.07     | -178.03           | -204.25     | -176.07               | 270.95              | 228.92  | 1.07                | -1.01                    |          |  |
| 26                         | 4,818         | 1.80                       | 202.50         | 4806.84     | -185.13           | -209.83     | -183.11               | 279.82              | 228.58  | 1.20                | -1.06                    |          |  |
| 27                         | 5,007         | 3.70                       | 215.40         | 4995.61     | -192.84           | -214.49     | -190.78               | 288.44              | 228.04  | 1.05                | 1.01                     |          |  |
| 28                         | 5,195         | 4.60                       | 222.40         | 5183.12     | -203.36           | -223.09     | -201.20               | 301.87              | 227.65  | 0.55                | 0.48                     |          |  |
| 29                         | 5,246         | 4.60                       | 222.10         | 5233.96     | -206.38           | -225.84     | -204.21               | 305.94              | 227.58  | 0.05                | 0.00                     |          |  |
| 30                         | 5,394         | 4.20                       | 219.90         | 5381.52     | -214.94           | -233.30     | -212.70               | 317.22              | 227.34  | 0.29                | -0.27                    |          |  |
| 31                         | 5,489         | 4.20                       | 217.80         | 5476.27     | -220.36           | -237.66     | -218.07               | 324.10              | 227.16  | 0.16                | 0.00                     |          |  |
| 32                         | 5,679         | 4.30                       | 217.10         | 5665.74     | -231.54           | -246.22     | -229.17               | 337.99              | 226.76  | 0.06                | 0.05                     |          |  |
| 33                         | 5,868         | 4.40                       | 233.10         | 5854.21     | -241.55           | -256.29     | -239.07               | 352.18              | 226.70  | 0.64                | 0.05                     |          |  |

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|-------------|----------------------------|
| Company:    | Matador Production Company |
| Well Name:  | Irwin Wall State COM 131H  |
| Location:   | Lea County, NM             |
| Rig:        | Patterson #282             |
| Job Number: | DDMO-180417                |
| API #:      | 30-025-44659               |

Magnetic Declination: 6.35

REFERENCED TO GRID NORTH

|                           |        |                     |        |
|---------------------------|--------|---------------------|--------|
| Vertical Section Azimuth: | 359.45 | Proposed Direction: | 359.45 |
|---------------------------|--------|---------------------|--------|

|                            |                   |
|----------------------------|-------------------|
| Survey Calculation Method: | Minimum Curvature |
|----------------------------|-------------------|

| PTB: | MD     | INC  | AZM   | TVD      | N/S     | E/W     | VS      |
|------|--------|------|-------|----------|---------|---------|---------|
|      | 16.475 | 96.1 | 359.8 | 11790.84 | 4735.91 | -303.46 | 4738.61 |

| #  | Depth<br>Feet | Inc<br>Degrees | Azm<br>Degrees | TVD<br>Feet | N/S<br>Feet | E/W<br>Feet | Surface<br>Vert Sec | Closure<br>Distance | Azm    | DLS/<br>100 | BUR/<br>100' |
|----|---------------|----------------|----------------|-------------|-------------|-------------|---------------------|---------------------|--------|-------------|--------------|
| 34 | 6,056         | 4.40           | 225.50         | 6041.65     | -250.93     | -267.20     | -248.35             | 366.56              | 226.80 | 0.31        | 0.00         |
| 35 | 6,244         | 4.20           | 223.00         | 6229.12     | -261.02     | -277.04     | -258.35             | 380.64              | 226.71 | 0.15        | -0.11        |
| 36 | 6,433         | 4.30           | 222.10         | 6417.60     | -271.34     | -286.51     | -268.58             | 394.61              | 226.56 | 0.06        | 0.05         |
| 37 | 6,623         | 1.60           | 243.70         | 6607.34     | -277.80     | -293.67     | -274.97             | 404.25              | 226.59 | 1.51        | -1.42        |
| 38 | 6,812         | 1.40           | 252.30         | 6796.27     | -279.67     | -298.23     | -276.80             | 408.85              | 226.84 | 0.16        | -0.11        |
| 39 | 7,001         | 1.10           | 255.20         | 6985.23     | -280.84     | -302.19     | -277.92             | 412.54              | 227.10 | 0.16        | -0.16        |
| 40 | 7,189         | 0.20           | 4.50           | 7173.22     | -280.97     | -303.91     | -278.04             | 413.89              | 227.25 | 0.63        | -0.48        |
| 41 | 7,377         | 0.30           | 31.70          | 7361.22     | -280.23     | -303.62     | -277.30             | 413.17              | 227.29 | 0.08        | 0.05         |
| 42 | 7,566         | 0.30           | 333.00         | 7550.21     | -279.36     | -303.59     | -276.44             | 412.56              | 227.38 | 0.16        | 0.00         |
| 43 | 7,754         | 0.30           | 271.50         | 7738.21     | -278.91     | -304.30     | -275.98             | 412.78              | 227.49 | 0.16        | 0.00         |
| 44 | 7,942         | 0.70           | 217.60         | 7926.21     | -279.81     | -305.49     | -276.86             | 414.27              | 227.51 | 0.31        | 0.21         |
| 45 | 8,131         | 1.10           | 185.90         | 8115.18     | -282.53     | -306.39     | -279.57             | 416.77              | 227.32 | 0.33        | 0.21         |
| 46 | 8,320         | 0.60           | 174.20         | 8304.16     | -285.32     | -306.47     | -282.36             | 418.73              | 227.05 | 0.28        | -0.26        |
| 47 | 8,509         | 2.00           | 323.60         | 8493.13     | -283.65     | -308.33     | -280.67             | 418.95              | 227.39 | 1.34        | 0.74         |
| 48 | 8,698         | 2.00           | 325.00         | 8682.01     | -278.29     | -312.18     | -275.28             | 418.21              | 228.28 | 0.03        | 0.00         |
| 49 | 8,886         | 1.40           | 326.40         | 8869.93     | -273.69     | -315.33     | -270.65             | 417.54              | 229.04 | 0.32        | -0.32        |
| 50 | 9,075         | 1.00           | 32.50          | 9058.90     | -270.38     | -315.72     | -267.33             | 415.67              | 229.42 | 0.71        | -0.21        |
| 51 | 9,264         | 0.40           | 341.50         | 9247.88     | -268.36     | -315.05     | -265.32             | 413.85              | 229.58 | 0.43        | -0.32        |
| 52 | 9,453         | 0.50           | 315.80         | 9436.88     | -267.14     | -315.83     | -264.10             | 413.66              | 229.77 | 0.12        | 0.05         |
| 53 | 9,640         | 0.50           | 103.60         | 9623.88     | -266.75     | -315.61     | -263.71             | 413.23              | 229.80 | 0.51        | 0.00         |
| 54 | 9,828         | 0.90           | 273.30         | 9811.87     | -266.86     | -316.28     | -263.81             | 413.82              | 229.84 | 0.74        | 0.21         |
| 55 | 10,016        | 1.90           | 98.90          | 9999.84     | -267.25     | -314.68     | -264.22             | 412.85              | 229.66 | 1.49        | 0.53         |
| 56 | 10,205        | 2.00           | 91.30          | 10188.73    | -267.81     | -308.28     | -264.84             | 408.37              | 229.02 | 0.15        | 0.05         |
| 57 | 10,394        | 1.50           | 15.20          | 10377.67    | -265.50     | -304.34     | -262.57             | 403.87              | 228.90 | 1.16        | -0.26        |
| 58 | 10,581        | 2.20           | 338.80         | 10564.57    | -259.79     | -304.99     | -256.85             | 400.64              | 229.58 | 0.71        | 0.37         |
| 59 | 10,770        | 3.30           | 313.40         | 10753.36    | -252.67     | -310.26     | -249.68             | 400.13              | 230.84 | 0.86        | 0.58         |
| 60 | 10,958        | 2.40           | 287.00         | 10941.13    | -247.80     | -317.96     | -244.74             | 403.12              | 232.07 | 0.83        | -0.48        |
| 61 | 11,116        | 1.10           | 206.60         | 11099.07    | -248.19     | -321.80     | -245.09             | 406.39              | 232.36 | 1.56        | -0.82        |
| 62 | 11,169        | 0.90           | 229.20         | 11152.07    | -248.92     | -322.34     | -245.81             | 407.27              | 232.32 | 0.83        | -0.38        |
| 63 | 11,216        | 6.40           | 17.20          | 11198.98    | -246.66     | -321.85     | -243.55             | 405.49              | 232.53 | 15.27       | 11.70        |
| 64 | 11,264        | 13.60          | 12.40          | 11246.22    | -238.58     | -319.84     | -235.50             | 399.02              | 233.28 | 15.09       | 15.00        |
| 65 | 11,311        | 18.30          | 16.50          | 11291.40    | -226.10     | -316.56     | -223.05             | 389.01              | 234.46 | 10.28       | 10.00        |
| 66 | 11,359        | 21.30          | 12.80          | 11336.56    | -210.37     | -312.48     | -207.36             | 376.70              | 236.05 | 6.77        | 6.25         |
| 67 | 11,406        | 25.70          | 10.70          | 11379.65    | -192.02     | -308.70     | -189.05             | 363.55              | 238.12 | 9.53        | 9.36         |

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|             |                            |                       |                          |
|-------------|----------------------------|-----------------------|--------------------------|
| Company:    | Matador Production Company |                       |                          |
| Well Name:  | Irwin Wall State COM 131H  |                       |                          |
| Location:   | Lea County, NM             |                       |                          |
| Rig:        | Patterson #282             | Magnetic Declination: | 6.35                     |
| Job Number: | DDMO-180417                |                       | REFERENCED TO GRID NORTH |
| API #:      | 30-025-44659               |                       |                          |

|                           |        |                     |        |
|---------------------------|--------|---------------------|--------|
| Vertical Section Azimuth: | 359.45 | Proposed Direction: | 359.45 |
|---------------------------|--------|---------------------|--------|

|                            |                   |
|----------------------------|-------------------|
| Survey Calculation Method: | Minimum Curvature |
|----------------------------|-------------------|

| PTB: | MD     | INC  | AZM   | TVD      | N/S     | E/W     | VS      |
|------|--------|------|-------|----------|---------|---------|---------|
|      | 16,475 | 96.1 | 359.8 | 11790.84 | 4735.91 | -303.46 | 4738.61 |

| #   | Depth<br>Feet | Inc<br>Degrees | Azm<br>Degrees | TVD<br>Feet | N/S<br>Feet | E/W<br>Feet | Surface<br>Vert Sec | Closure<br>Distance | Azm    | DLS/<br>100 | BUR/<br>100' |
|-----|---------------|----------------|----------------|-------------|-------------|-------------|---------------------|---------------------|--------|-------------|--------------|
| 68  | 11,453        | 28.90          | 10.00          | 11421.41    | -170.82     | -304.83     | -167.88             | 349.43              | 240.74 | 6.84        | 6.81         |
| 69  | 11,500        | 37.00          | 7.20           | 11460.82    | -145.56     | -301.08     | -142.66             | 334.42              | 244.20 | 17.53       | 17.23        |
| 70  | 11,547        | 41.20          | 6.00           | 11497.29    | -116.12     | -297.69     | -113.25             | 319.53              | 248.69 | 9.08        | 8.94         |
| 71  | 11,594        | 44.60          | 5.60           | 11531.71    | -84.29      | -294.46     | -81.46              | 306.29              | 254.03 | 7.26        | 7.23         |
| 72  | 11,641        | 49.30          | 5.10           | 11563.78    | -50.10      | -291.26     | -47.31              | 295.54              | 260.24 | 10.03       | 10.00        |
| 73  | 11,688        | 53.60          | 5.00           | 11593.07    | -13.50      | -288.03     | -10.73              | 288.35              | 267.32 | 9.15        | 9.15         |
| 74  | 11,736        | 55.70          | 2.50           | 11620.84    | 25.56       | -285.48     | 28.30               | 286.62              | 275.12 | 6.10        | 4.38         |
| 75  | 11,783        | 58.40          | 1.20           | 11646.40    | 64.98       | -284.22     | 67.70               | 291.55              | 282.88 | 6.20        | 5.74         |
| 76  | 11,830        | 62.60          | 0.90           | 11669.54    | 105.87      | -283.47     | 108.58              | 302.59              | 290.48 | 8.95        | 8.94         |
| 77  | 11,877        | 67.80          | 1.90           | 11689.25    | 148.50      | -282.42     | 151.21              | 319.08              | 297.74 | 11.23       | 11.06        |
| 78  | 11,925        | 72.30          | 2.70           | 11705.62    | 193.57      | -280.60     | 196.26              | 340.89              | 304.60 | 9.50        | 9.38         |
| 79  | 11,972        | 75.90          | 2.00           | 11718.50    | 238.73      | -278.75     | 241.40              | 367.01              | 310.58 | 7.79        | 7.66         |
| 80  | 12,019        | 80.90          | 0.60           | 11727.95    | 284.74      | -277.71     | 287.40              | 397.75              | 315.72 | 11.03       | 10.64        |
| 81  | 12,066        | 82.60          | 0.50           | 11734.69    | 331.25      | -277.27     | 333.90              | 431.98              | 320.07 | 3.62        | 3.62         |
| 82  | 12,113        | 85.30          | 0.30           | 11739.64    | 377.99      | -276.94     | 380.63              | 468.58              | 323.77 | 5.76        | 5.74         |
| 83  | 12,160        | 88.00          | 359.10         | 11742.39    | 424.90      | -277.19     | 427.54              | 507.32              | 326.88 | 6.28        | 5.74         |
| 84  | 12,208        | 90.30          | 358.90         | 11743.10    | 472.88      | -278.03     | 475.53              | 548.56              | 329.55 | 4.81        | 4.79         |
| 85  | 12,303        | 92.30          | 358.20         | 11740.95    | 567.82      | -280.43     | 570.49              | 633.30              | 333.72 | 2.23        | 2.11         |
| 86  | 12,397        | 91.00          | 358.20         | 11738.24    | 661.74      | -283.38     | 664.43              | 719.86              | 336.82 | 1.38        | -1.38        |
| 87  | 12,478        | 89.90          | 357.80         | 11737.60    | 742.68      | -286.21     | 745.40              | 795.92              | 338.92 | 1.45        | -1.36        |
| 88  | 12,572        | 91.30          | 357.60         | 11736.62    | 836.60      | -289.98     | 839.34              | 885.43              | 340.88 | 1.50        | 1.49         |
| 89  | 12,666        | 90.60          | 358.70         | 11735.06    | 930.54      | -293.01     | 933.31              | 975.58              | 342.52 | 1.39        | -0.74        |
| 90  | 12,760        | 88.90          | 358.90         | 11735.47    | 1024.51     | -294.98     | 1027.29             | 1066.13             | 343.94 | 1.82        | -1.81        |
| 91  | 12,855        | 88.30          | 358.50         | 11737.79    | 1119.46     | -297.14     | 1122.26             | 1158.22             | 345.13 | 0.76        | -0.63        |
| 92  | 12,948        | 89.90          | 358.40         | 11739.25    | 1212.41     | -299.65     | 1215.23             | 1248.89             | 346.12 | 1.72        | 1.72         |
| 93  | 13,043        | 89.10          | 359.10         | 11740.08    | 1307.38     | -301.72     | 1310.22             | 1341.75             | 347.00 | 1.12        | -0.84        |
| 94  | 13,137        | 88.20          | 358.50         | 11742.30    | 1401.33     | -303.69     | 1404.18             | 1433.86             | 347.77 | 1.15        | -0.96        |
| 95  | 13,231        | 89.00          | 358.20         | 11744.59    | 1495.26     | -306.40     | 1498.14             | 1526.33             | 348.42 | 0.91        | 0.85         |
| 96  | 13,325        | 87.20          | 358.20         | 11747.71    | 1589.16     | -309.35     | 1592.06             | 1618.99             | 348.98 | 1.91        | -1.91        |
| 97  | 13,420        | 85.80          | 356.00         | 11753.51    | 1683.86     | -314.14     | 1686.79             | 1712.91             | 349.43 | 2.74        | -1.47        |
| 98  | 13,514        | 87.80          | 358.00         | 11758.76    | 1777.57     | -319.05     | 1780.55             | 1805.98             | 349.82 | 3.01        | 2.13         |
| 99  | 13,609        | 88.30          | 359.50         | 11761.99    | 1872.49     | -321.12     | 1875.49             | 1899.83             | 350.27 | 1.66        | 0.53         |
| 100 | 13,703        | 87.90          | 0.90           | 11765.11    | 1966.44     | -320.80     | 1969.42             | 1992.43             | 350.73 | 1.55        | -0.43        |
| 101 | 13,797        | 88.70          | 0.60           | 11767.89    | 2060.39     | -319.57     | 2063.36             | 2085.02             | 351.18 | 0.91        | 0.85         |

|                            |               |                            |                |                   |             |                       |                     |                     |         |                          |             |              |         |  |
|----------------------------|---------------|----------------------------|----------------|-------------------|-------------|-----------------------|---------------------|---------------------|---------|--------------------------|-------------|--------------|---------|--|
| Company:                   |               | Matador Production Company |                |                   |             |                       |                     |                     |         |                          |             |              |         |  |
| Well Name:                 |               | Irwin Wall State COM 131H  |                |                   |             |                       |                     |                     |         |                          |             |              |         |  |
| Location:                  |               | Lea County, NM             |                |                   |             |                       |                     |                     |         |                          |             |              |         |  |
| Rig:                       |               | Patterson #282             |                |                   |             | Magnetic Declination: |                     | 6.35                |         | REFERENCED TO GRID NORTH |             |              |         |  |
| Job Number:                |               | DDMO-180417                |                |                   |             |                       |                     |                     |         |                          |             |              |         |  |
| API #:                     |               | 30-025-44659               |                |                   |             |                       |                     |                     |         |                          |             |              |         |  |
| Vertical Section Azimuth:  |               |                            |                | 359.45            |             | Proposed Direction:   |                     | 359.45              |         |                          |             |              |         |  |
| Survey Calculation Method: |               |                            |                | Minimum Curvature |             |                       |                     |                     |         |                          |             |              |         |  |
| PTB:                       | MD            |                            | INC            |                   | AZM         |                       | TVD                 |                     | N/S     |                          | E/W         |              | VS      |  |
|                            | 16,475        |                            | 96.1           |                   | 359.8       |                       | 11790.84            |                     | 4735.91 |                          | -303.46     |              | 4738.61 |  |
| #                          | Depth<br>Feet | Inc<br>Degrees             | Azm<br>Degrees | TVD<br>Feet       | N/S<br>Feet | E/W<br>Feet           | Surface<br>Vert Sec | Closure<br>Distance |         | Azm                      | DLS/<br>100 | BUR/<br>100' |         |  |
| 102                        | 13,892        | 87.50                      | 0.30           | 11771.04          | 2155.33     | -318.82               | 2158.29             | 2178.78             | 351.59  | 1.30                     | -1.26       |              |         |  |
| 103                        | 13,986        | 87.70                      | 0.50           | 11774.98          | 2249.24     | -318.16               | 2252.19             | 2271.64             | 351.95  | 0.30                     | 0.21        |              |         |  |
| 104                        | 14,080        | 86.90                      | 0.70           | 11779.41          | 2343.13     | -317.18               | 2346.07             | 2364.50             | 352.29  | 0.88                     | -0.85       |              |         |  |
| 105                        | 14,174        | 87.90                      | 1.10           | 11783.67          | 2437.02     | -315.71               | 2439.94             | 2457.39             | 352.62  | 1.15                     | 1.06        |              |         |  |
| 106                        | 14,269        | 88.60                      | 1.20           | 11786.57          | 2531.96     | -313.80               | 2534.86             | 2551.33             | 352.94  | 0.74                     | 0.74        |              |         |  |
| 107                        | 14,364        | 89.20                      | 1.20           | 11788.40          | 2626.92     | -311.81               | 2629.79             | 2645.36             | 353.23  | 0.63                     | 0.63        |              |         |  |
| 108                        | 14,458        | 88.00                      | 0.70           | 11790.69          | 2720.88     | -310.25               | 2723.73             | 2738.51             | 353.49  | 1.38                     | -1.28       |              |         |  |
| 109                        | 14,552        | 89.00                      | 0.00           | 11793.15          | 2814.84     | -309.68               | 2817.69             | 2831.83             | 353.72  | 1.30                     | 1.06        |              |         |  |
| 110                        | 14,647        | 90.00                      | 359.80         | 11793.98          | 2909.84     | -309.85               | 2912.68             | 2926.29             | 353.92  | 1.07                     | 1.05        |              |         |  |
| 111                        | 14,741        | 91.40                      | 359.60         | 11792.84          | 3003.83     | -310.34               | 3006.67             | 3019.82             | 354.10  | 1.50                     | 1.49        |              |         |  |
| 112                        | 14,835        | 90.80                      | 0.50           | 11791.03          | 3097.81     | -310.26               | 3100.64             | 3113.31             | 354.28  | 1.15                     | -0.64       |              |         |  |
| 113                        | 14,929        | 89.20                      | 0.40           | 11791.03          | 3191.80     | -309.52               | 3194.63             | 3206.77             | 354.46  | 1.71                     | -1.70       |              |         |  |
| 114                        | 15,023        | 88.10                      | 0.60           | 11793.25          | 3285.77     | -308.70               | 3288.58             | 3300.24             | 354.63  | 1.19                     | -1.17       |              |         |  |
| 115                        | 15,119        | 86.40                      | 0.40           | 11797.85          | 3381.65     | -307.86               | 3384.45             | 3395.64             | 354.80  | 1.78                     | -1.77       |              |         |  |
| 116                        | 15,214        | 86.90                      | 0.40           | 11803.40          | 3476.49     | -307.20               | 3479.28             | 3490.03             | 354.95  | 0.53                     | 0.53        |              |         |  |
| 117                        | 15,308        | 88.30                      | 0.20           | 11807.34          | 3570.40     | -306.71               | 3573.18             | 3583.55             | 355.09  | 1.50                     | 1.49        |              |         |  |
| 118                        | 15,402        | 89.30                      | 0.30           | 11809.31          | 3664.38     | -306.30               | 3667.15             | 3677.16             | 355.22  | 1.07                     | 1.06        |              |         |  |
| 119                        | 15,497        | 90.30                      | 0.40           | 11809.64          | 3759.38     | -305.72               | 3762.14             | 3771.79             | 355.35  | 1.06                     | 1.05        |              |         |  |
| 120                        | 15,615        | 89.50                      | 0.40           | 11809.84          | 3877.37     | -304.89               | 3880.12             | 3889.34             | 355.50  | 0.68                     | -0.68       |              |         |  |
| 121                        | 15,710        | 88.70                      | 0.00           | 11811.34          | 3972.36     | -304.56               | 3975.10             | 3984.02             | 355.62  | 0.94                     | -0.84       |              |         |  |
| 122                        | 15,804        | 86.70                      | 0.40           | 11815.11          | 4066.28     | -304.23               | 4069.01             | 4077.64             | 355.72  | 2.17                     | -2.13       |              |         |  |
| 123                        | 15,898        | 87.80                      | 0.50           | 11819.62          | 4160.16     | -303.50               | 4162.89             | 4171.22             | 355.83  | 1.18                     | 1.17        |              |         |  |
| 124                        | 15,991        | 90.10                      | 0.30           | 11821.32          | 4253.14     | -302.85               | 4255.85             | 4263.91             | 355.93  | 2.48                     | 2.47        |              |         |  |
| 125                        | 16,085        | 91.60                      | 0.00           | 11819.93          | 4347.13     | -302.60               | 4349.83             | 4357.65             | 356.02  | 1.63                     | 1.60        |              |         |  |
| 126                        | 16,180        | 92.90                      | 359.90         | 11816.20          | 4442.05     | -302.68               | 4444.75             | 4452.35             | 356.10  | 1.37                     | 1.37        |              |         |  |
| 127                        | 16,274        | 94.50                      | 359.90         | 11810.13          | 4535.85     | -302.85               | 4538.55             | 4545.95             | 356.18  | 1.70                     | 1.70        |              |         |  |
| 128                        | 16,368        | 95.50                      | 359.80         | 11801.94          | 4629.49     | -303.09               | 4632.19             | 4639.40             | 356.25  | 1.07                     | 1.06        |              |         |  |
| 129                        | 16,419        | 96.10                      | 359.80         | 11796.79          | 4680.23     | -303.27               | 4682.93             | 4690.05             | 356.29  | 1.18                     | 1.18        |              |         |  |
| PTB:                       | 16,475        | 96.10                      | 359.80         | 11790.84          | 4735.91     | -303.46               | 4738.61             | 4745.63             | 356.33  | 0.00                     | 0.00        |              |         |  |