

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

NOV 09 2016

RECEIVED

**Matador Production Company**  
**Eddy County**  
**B Banker 33-23S-28E RB #226H**  
**Surveys: 161`MD - 466`MD**  
**Survey Date: Wednesday, July 20, 2016**

30-015-43817

## **National Oilwell Varco**

### **Survey Report**

**Thursday, August 11, 2016**

UWI No. 30-015-43817

Surface Coordinates: 459686.00 N, 577167.00 E (32° 15' 48.7692" N, 104° 05' 01.2729" W)  
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Foot

Kelly Bushing Elevation: 3086.50ft above Mean Sea Level  
Kelly Bushing Elevation: 28.50ft above Ground Level  
Ground Level: 3058.00ft above Mean Sea Level

Survey Ref: svy576

**FloSurvey - Real Time Survey Tool**

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512)340-5000

Fax: (512)340-5441

August 11, 2016

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

CLIENT: Matador Production Company

WELL: B Banker 33-23S-28E RB #226H

FIELD: Culbera Bluff

RIG: Patterson 297

COUNTY: Eddy

API NO: 30-015-43817

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco, contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

| <u>Name &amp; Title of<br/>Surveyor</u> | <u>Drainhole Number</u>                          | <u>Surveyed Depths</u>       | <u>Dates Performed</u>               | <u>Type of Survey</u> |
|-----------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------|-----------------------|
| Lee Pendegraft<br>Survey Manager        | B Banker 33-23S-28E RB<br>#226H<br>Original Hole | 161.00 Ft    to<br>466.00 Ft | July 20, 2016    to<br>July 20, 2016 | FloSurvey             |

If any other information is required, please contact the undersigned at the above letterhead and phone number.  
Sincerely,

Jonathan Leininger  
Field Service Manager

CC: Matador Production Company  
Enclosures: [2]  
County of Eddy  
State of New Mexico

Attn: Adam Lange  
One Lincoln Centre 5400 LBJ Freeway  
Dallas, TX 75240

Attn:

**FloSurvey - Real Time Survey Tool**

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512) 340-5000

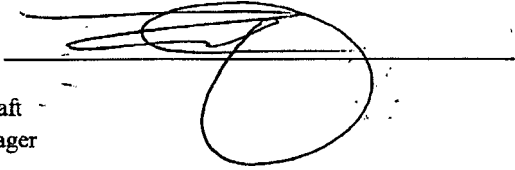
Fax: (512) 340-5441

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I, Lee Pendegraft certify that; I am employed by National Oilwell Varco, L.P.; that the surveys taken on the day(s) of July 20, 2016 through July 20, 2016, from a depth of 161 feet to a depth of 466 feet; are to the best of my knowledge, the data is true, correct, complete and within the limitations of the tool as set forth by National Oilwell Varco, L.P.; that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Production Company for the B Banker 33-23S-28E RB #226H Well (Original Hole) API No. 30-015-43817 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by National Oilwell Varco, L.P.

Signature

Lee Pendegraft  
Survey Manager

A handwritten signature in black ink, appearing to read 'Lee Pendegraft', is written over a horizontal line. The signature is stylized with a large, circular loop at the end.

**FloSurvey - Real Time Survey Tool**

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512)340-5000

Fax: (512)340-5441

---

August 11, 2016

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

CLIENT: Matador Production Company

WELL: B Banker 33-23S-28E RB #226H

FIELD: Culbera Bluff

RIG: Patterson 297

COUNTY: Eddy

API NO: 30-015-43817

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco, contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

| <u>Name &amp; Title of Surveyor</u> | <u>Drainhole Number</u>                          | <u>Surveyed Depths</u>       | <u>Dates Performed</u>               | <u>Type of Survey</u> |
|-------------------------------------|--------------------------------------------------|------------------------------|--------------------------------------|-----------------------|
| Lee Pendegraft<br>Survey Manager    | B Banker 33-23S-28E RB<br>#226H<br>Original Hole | 161.00 Ft    to<br>466.00 Ft | July 20, 2016    to<br>July 20, 2016 | FloSurvey             |

If any other information is required, please contact the undersigned at the above letterhead and phone number.  
Sincerely,

Jonathan Leininger  
Field Service ManagerCC: Matador Production Company  
Enclosures: [2]  
County of Eddy  
State of New MexicoAttn: Adam Lange  
One Lincoln Centre 5400 LBJ Freeway  
Dallas, TX 75240  
Attn:

# Matador Production Company

## Survey Report for Eddy County, B Banker 33-23S-28E RB #226H, Surveys:161`MD - 466`MD

| Survey Depth (ft) | Incl. (°) | (Grid) Azim. (°) | Vertical Depth (ft) | Northings (ft) | Eastings (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
|-------------------|-----------|------------------|---------------------|----------------|---------------|-----------------------|-----------------------|
| 0.00              | 0.00      | 0.00             | 0.00                | 0.00 N         | 0.00 E        | 0.00                  |                       |
| 161.00            | 1.53      | 337.41           | 160.98              | 1.98 N         | 0.83 W        | 2.15                  | 0.95                  |
| 285.00            | 2.03      | 337.53           | 284.92              | 5.54 N         | 2.30 W        | 5.99                  | 0.40                  |
| 466.00            | 2.54      | 325.75           | 465.78              | 11.82 N        | 5.78 W        | 13.16                 | 0.38                  |

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to Grid North.

Vertical depths are relative to B Banker 33-23S-28E RB #226H. Northings and Eastings are relative to B Banker 33-23S-28E RB #226H.

The dogleg severity is in Degrees per 100 feet (US Survey).

Vertical Section is from B Banker 33-23S-28E RB #226H calculated along an azimuth of 333.93° (Grid).

Based upon minimum curvature calculations, at a measured depth of 466.00ft, the bottom hole displacement is 13.16ft, in the direction of 333.93° (Grid).

The along-hole displacement is 13.19ft. The total accumulated dogleg is 2.71°.

The measured tortuosity is 0.61°/100ft. The directional difficulty index is 1.1.

## Survey Tool Program for B Banker 33-23S-28E RB #226H, Surveys:161`MD - 466`MD

| From Measured Depth (ft) | From Vertical Depth (ft) | To Measured Depth (ft) | To Vertical Depth (ft) | Survey Tool Description |
|--------------------------|--------------------------|------------------------|------------------------|-------------------------|
| 0.00                     | 0.00                     | 466.00                 | 465.78                 | NOV_FLOSURVEY_TILT_MEM  |

# Matador Production Company

Survey Report for Eddy County, B Banker 33-23S-28E RB #226H, Surveys:161`MD - 466`MD

## REFERENCE DATA

|               |                                                     |               |                  |
|---------------|-----------------------------------------------------|---------------|------------------|
| Ellipsoid     | Clarke - 1866                                       | Unit System   | Feet (Us Survey) |
| Coord. System | NAD27 New Mexico State Planes, Eastern Zone, US Foc | North Ref.    | Grid North       |
| Mag. Model    | International Geomagnetic Reference Field 2015      | Vertical Ref. | Mean Sea Level   |
| Calc. Date    | 20 Jul, 2016                                        |               |                  |

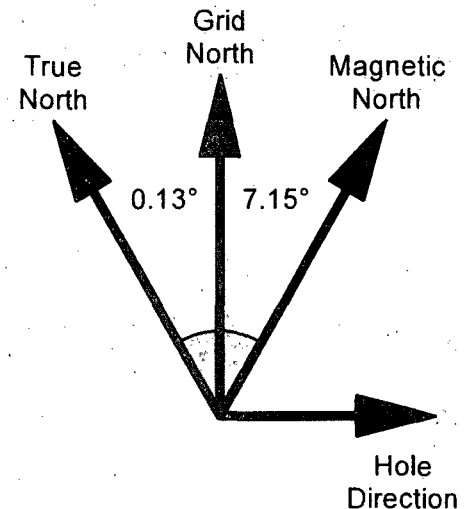
## LOCATION DATA

|               |                     |              |            |
|---------------|---------------------|--------------|------------|
| RKB Elevation | 3086.50ft above MSL | Total Field  | 48001.6 nT |
| Map North     | 459686.00 N         | Magnetic Dip | 60.03°     |
| Map East      | 577167.00 E         | Declination  | 7.28°      |
| Latitude      | 32° 15' 48.7692" N  | Convergence  | 0.13°      |
| Longitude     | 104° 05' 01.2729" W |              |            |

## NORTH REFERENCE DATA

|                      |                                          |
|----------------------|------------------------------------------|
| Magnetic Model       | ational Geomagnetic Reference Field 2015 |
| Calculation Date     | Wednesday, July 20, 2016                 |
| Declination          | 7.28°                                    |
| Inclination/Dip      | 60.03°                                   |
| Horizontal Component | 23981.2 nT                               |
| Northerly Component  | 23787.4 nT                               |
| Easterly Component   | 3043.4 nT                                |
| Vertical Component   | 41581.8 nT                               |
| Total Field Strength | 48001.6 nT                               |

Grid North is 0.13 degrees East of True North (Grid Convergence)  
Magnetic North is 7.28 degrees East of True North (Magnetic Declination)  
Magnetic North is 7.15 degrees East of Grid North (Magnetic Convergence)  
To convert a True Direction to a Grid Direction, Subtract 0.13 degrees.  
To convert a Magnetic Direction to a True Direction, Add 7.28 degrees.  
To convert a Magnetic Direction to a Grid Direction, Add 7.15 degrees.



## Disclaimer Notice

National Oilwell Varco makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document.

National Oilwell Varco are not responsible for any actions (or lack thereof) taken as a result of relying on or in any way using information contained in this document and in no event shall be liable for any damages resulting from reliance on or use of this information.



7821 Will Rogers Blvd.  
Fort Worth, Texas 76140

817.568.1038 (office)  
817.568.1499 (fax)  
www.msenergyservices.com

State of Texas

County of Tarrant

I, JUSTIN RELOV, certify that; I am employed by MS Energy Services;  
that I did on the day(s) of 7/21/16 through 8/2/16 conduct or supervise  
the taking of MWD survey(s) from a depth of 161 feet to a depth of 14,278  
feet; that the data is true, correct, complete and within the limitations of the tool set forth by MS Energy  
Services; that I am authorized and qualified to make this report; that this survey(s) was / were  
conducted at the request of MATADOR PRODUCTIONS COMPANY  
for the BANKER 33-235-28ERB<sup>226H</sup>, API No. 30-015-43817  
in EDDY County Parish, NEW MEXICO; and that I have  
reviewed this report and find that it conforms to the principles and procedures as set forth by  
MS Energy Services.

Signature: J. Relov

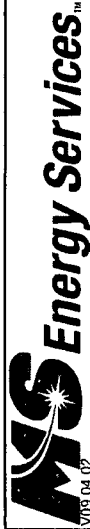
Title: MWD FIELD SPECIALIST

MS Directional

MS Guidance

MS Survey

MS Wireline



## SURVEY CALCULATION PROGRAM

11/2/16 9:20

|             |                             |
|-------------|-----------------------------|
| Company:    | Matador Production Company  |
| Well Name:  | B Banker 33-23S-28E RB 226H |
| Location:   | Eddy County, NM             |
| Rig:        | Patterson #297              |
| Job Number: | DDMO-160309                 |
| API #:      | 30-015-43817                |

Magnetic Declination: 7.21

REFERENCED TO GRID NORTH

|                           |        |
|---------------------------|--------|
| Vertical Section Azimuth: | 269.56 |
| Proposed Direction:       | 269.56 |

Survey Calculation Method: Minimum Curvature

| #      | Depth<br>Feet | Inc    |        | Azimuth |         | TVD<br>Feet | N/S     |         | E/W<br>Feet | Surface |        | Distance |        | Closure |        | DLS/<br>100 | BUR/<br>100' |
|--------|---------------|--------|--------|---------|---------|-------------|---------|---------|-------------|---------|--------|----------|--------|---------|--------|-------------|--------------|
|        |               | MD     | MD     | Inc     | MD      | MD          | MD      | MD      | MD          | MD      | MD     | MD       | MD     | MD      | MD     |             |              |
| PTB:   | 14,350        | 14,350 | 14,350 | 14,350  | 14,350  | 14,350      | 14,350  | 14,350  | 14,350      | 14,350  | 14,350 | 14,350   | 14,350 | 14,350  | 14,350 | 14,350      | 14,350       |
| TIE IN | 0             | 0.00   | 0.00   | 0.00    | 0.00    | 0.00        | 0.00    | 0.00    | 0.00        | 0.00    | 0.00   | 0.00     | 0.00   | 0.00    | 0.00   | 0.00        | 0.00         |
| 1      | 161           | 1.50   | 338.00 | 160.98  | 1.95    | 160.98      | 1.95    | 160.98  | 1.95        | 0.77    | 2.11   | 338.00   | 0.93   | 0.93    | 0.93   | 0.93        | 0.93         |
| 2      | 290           | 1.90   | 339.00 | 289.92  | 5.52    | 289.92      | 5.52    | 289.92  | 5.52        | 2.15    | 5.93   | 338.36   | 0.31   | 0.31    | 0.31   | 0.31        | 0.31         |
| 3      | 470           | 2.40   | 327.00 | 469.80  | 11.46   | 469.80      | 11.46   | 469.80  | 11.46       | 5.22    | 12.63  | 335.14   | 0.37   | 0.37    | 0.37   | 0.37        | 0.37         |
| 4      | 622           | 2.20   | 323.80 | 621.68  | 16.49   | 621.68      | 16.49   | 621.68  | 16.49       | 8.64    | 18.67  | 332.00   | 0.16   | 0.16    | 0.16   | 0.16        | 0.16         |
| 5      | 801           | 2.40   | 181.90 | 800.62  | 15.51   | 800.62      | 15.51   | 800.62  | 15.51       | 10.80   | 18.97  | 324.85   | 2.43   | 2.43    | 2.43   | 2.43        | 2.43         |
| 6      | 984           | 1.90   | 176.00 | 983.49  | 8.66    | 983.49      | 8.66    | 983.49  | 8.66        | 10.77   | 13.87  | 308.62   | 0.30   | 0.30    | 0.30   | 0.30        | 0.30         |
| 7      | 1,171         | 4.40   | 180.00 | 1170.19 | -1.61   | 1170.19     | -1.61   | 1170.19 | -1.61       | 10.63   | 10.74  | 261.37   | 1.34   | 1.34    | 1.34   | 1.34        | 1.34         |
| 8      | 1,358         | 3.50   | 179.80 | 1356.74 | -14.49  | 1356.74     | -14.49  | 1356.74 | -14.49      | 10.71   | 17.96  | 216.18   | 0.48   | 0.48    | 0.48   | 0.48        | 0.48         |
| 9      | 1,544         | 5.10   | 150.00 | 1542.24 | -27.33  | 1542.24     | -27.33  | 1542.24 | -27.33      | 6.66    | 28.08  | 193.27   | 1.45   | 1.45    | 1.45   | 1.45        | 1.45         |
| 10     | 1,731         | 4.10   | 148.20 | 1728.63 | -40.21  | 1728.63     | -40.21  | 1728.63 | -40.21      | -0.92   | 40.23  | 178.24   | 0.54   | 0.54    | 0.54   | 0.54        | 0.54         |
| 11     | 1,918         | 4.60   | 135.90 | 1915.10 | -51.28  | 1915.10     | -51.28  | 1915.10 | -51.28      | 9.97    | 52.24  | 168.99   | 0.56   | 0.56    | 0.56   | 0.56        | 0.56         |
| 12     | 2,105         | 4.40   | 152.30 | 2101.53 | -63.02  | 2101.53     | -63.02  | 2101.53 | -63.02      | 18.53   | 65.68  | 163.62   | 0.69   | 0.69    | 0.69   | 0.69        | 0.69         |
| 13     | 2,293         | 5.10   | 143.60 | 2288.88 | -76.13  | 2288.88     | -76.13  | 2288.88 | -76.13      | 26.84   | 80.72  | 160.58   | 0.53   | 0.53    | 0.53   | 0.53        | 0.53         |
| 14     | 2,480         | 4.60   | 153.60 | 2475.22 | -89.53  | 2475.22     | -89.53  | 2475.22 | -89.53      | 35.10   | 96.17  | 158.59   | 0.52   | 0.52    | 0.52   | 0.52        | 0.52         |
| 15     | 2,667         | 3.10   | 183.60 | 2661.81 | -101.30 | 2661.81     | -101.30 | 2661.81 | -101.30     | 38.12   | 108.23 | 159.38   | 1.32   | 1.32    | 1.32   | 1.32        | 1.32         |
| 16     | 2,752         | 2.70   | 184.90 | 2746.70 | -105.59 | 2746.70     | -105.59 | 2746.70 | -105.59     | 37.81   | 112.15 | 160.30   | 0.48   | 0.48    | 0.48   | 0.48        | 0.48         |
| 17     | 2,939         | 5.80   | 161.50 | 2933.17 | -118.94 | 2933.17     | -118.94 | 2933.17 | -118.94     | 40.43   | 125.62 | 161.23   | 1.87   | 1.87    | 1.87   | 1.87        | 1.87         |
| 18     | 3,126         | 7.20   | 170.30 | 3118.97 | -139.45 | 3118.97     | -139.45 | 3118.97 | -139.45     | 45.40   | 146.66 | 161.97   | 0.92   | 0.92    | 0.92   | 0.92        | 0.92         |
| 19     | 3,314         | 9.40   | 177.20 | 3305.00 | -166.40 | 3305.00     | -166.40 | 3305.00 | -166.40     | 48.14   | 173.23 | 163.87   | 1.28   | 1.28    | 1.28   | 1.28        | 1.28         |
| 20     | 3,501         | 9.80   | 171.60 | 3489.38 | -197.40 | 3489.38     | -197.40 | 3489.38 | -197.40     | 51.21   | 203.94 | 165.46   | 0.54   | 0.54    | 0.54   | 0.54        | 0.54         |
| 21     | 3,688         | 11.10  | 167.60 | 3673.28 | -230.73 | 3673.28     | -230.73 | 3673.28 | -230.73     | 57.40   | 237.76 | 166.03   | 0.80   | 0.80    | 0.80   | 0.80        | 0.80         |
| 22     | 3,875         | 10.60  | 168.70 | 3856.93 | -265.18 | 3856.93     | -265.18 | 3856.93 | -265.18     | 64.63   | 272.94 | 166.30   | 0.29   | 0.29    | 0.29   | 0.29        | 0.29         |
| 23     | 4,063         | 9.40   | 172.40 | 4042.08 | -297.35 | 4042.08     | -297.35 | 4042.08 | -297.35     | 70.05   | 305.49 | 166.74   | 0.72   | 0.72    | 0.72   | 0.72        | 0.72         |
| 24     | 4,250         | 8.60   | 174.00 | 4226.77 | -326.39 | 4226.77     | -326.39 | 4226.77 | -326.39     | 73.53   | 334.57 | 167.30   | 0.45   | 0.45    | 0.45   | 0.45        | 0.45         |
| 25     | 4,437         | 6.90   | 171.10 | 4412.06 | -351.40 | 4412.06     | -351.40 | 4412.06 | -351.40     | 76.73   | 359.68 | 167.68   | 0.93   | 0.93    | 0.93   | 0.93        | 0.93         |
| 26     | 4,624         | 6.10   | 153.50 | 4597.87 | -371.39 | 4597.87     | -371.39 | 4597.87 | -371.39     | 82.91   | 380.53 | 167.42   | 1.14   | 1.14    | 1.14   | 1.14        | 1.14         |
| 27     | 4,811         | 3.20   | 146.10 | 4784.24 | -384.62 | 4784.24     | -384.62 | 4784.24 | -384.62     | 90.25   | 395.06 | 166.79   | 1.58   | 1.58    | 1.58   | 1.58        | 1.58         |
| 28     | 4,998         | 0.50   | 159.90 | 4971.13 | -389.72 | 4971.13     | -389.72 | 4971.13 | -389.72     | 93.44   | 400.76 | 166.52   | 1.45   | 1.45    | 1.45   | 1.45        | 1.45         |
| 29     | 5,185         | 0.80   | 184.10 | 5158.11 | -391.78 | 5158.11     | -391.78 | 5158.11 | -391.78     | 93.63   | 402.82 | 166.56   | 0.21   | 0.21    | 0.21   | 0.21        | 0.21         |
| 30     | 5,373         | 0.50   | 190.40 | 5346.10 | -393.90 | 5346.10     | -393.90 | 5346.10 | -393.90     | 93.39   | 404.82 | 166.66   | 0.16   | 0.16    | 0.16   | 0.16        | 0.16         |
| 31     | 5,560         | 0.20   | 198.70 | 5533.10 | -395.01 | 5533.10     | -395.01 | 5533.10 | -395.01     | 93.14   | 405.84 | 166.73   | 0.16   | 0.16    | 0.16   | 0.16        | 0.16         |
| 32     | 5,747         | 0.40   | 187.80 | 5720.10 | -395.97 | 5720.10     | -395.97 | 5720.10 | -395.97     | 92.94   | 406.73 | 166.79   | 0.11   | 0.11    | 0.11   | 0.11        | 0.11         |

# SURVEY CALCULATION PROGRAM

11/2/16 9:20

|             |                             |
|-------------|-----------------------------|
| Company:    | Matador Production Company  |
| Well Name:  | B Banker 33-23S-28E RB 226H |
| Location:   | Eddy County, NM             |
| Rig:        | Patterson #297              |
| Job Number: | DDMO-160309                 |
| API #:      | 30-015-43817                |

REFERENCED TO GRID NORTH

Magnetic Declination: 7.21

Proposed Direction: 269.56

Vertical Section Azimuth: 269.56

Survey Calculation Method: Minimum Curvature

| PTB: | MD | Inc | Azm | TVD | Feet | N/S | Feet | AZM | TVD | Feet | E/W | Surface | Distance | Closure | Azm | DLS/100 | BUR/100' |
|------|----|-----|-----|-----|------|-----|------|-----|-----|------|-----|---------|----------|---------|-----|---------|----------|
|------|----|-----|-----|-----|------|-----|------|-----|-----|------|-----|---------|----------|---------|-----|---------|----------|

|  |        |  |  |      |  |     |  |  |         |  |  |         |  |          |  |  |         |
|--|--------|--|--|------|--|-----|--|--|---------|--|--|---------|--|----------|--|--|---------|
|  | 14,350 |  |  | 91.5 |  | 269 |  |  | 9527.84 |  |  | -400.54 |  | -4941.11 |  |  | 4944.04 |
|--|--------|--|--|------|--|-----|--|--|---------|--|--|---------|--|----------|--|--|---------|

| #  | Depth<br>Feet | Inc<br>Degrees | Azm<br>Degrees | TVD<br>Feet | N/S<br>Feet | AZM<br>Feet | TVD<br>Feet | E/W<br>Feet | Surface<br>Vert Sec | Distance | Closure | Azm | DLS/100 | BUR/100' |
|----|---------------|----------------|----------------|-------------|-------------|-------------|-------------|-------------|---------------------|----------|---------|-----|---------|----------|
| 33 | 5,934         | 0.50           | 160.00         | 5907.09     | -397.38     |             | 93.13       |             | -90.08              | 408.15   | 166.81  |     | 0.13    | 0.05     |
| 34 | 6,121         | 0.40           | 268.00         | 6094.09     | -398.17     |             | 92.76       |             | -89.70              | 408.83   | 166.89  |     | 0.39    | -0.05    |
| 35 | 6,308         | 1.40           | 210.70         | 6281.06     | -400.16     |             | 90.94       |             | -87.87              | 410.36   | 167.20  |     | 0.66    | 0.53     |
| 36 | 6,496         | 1.50           | 247.40         | 6469.01     | -403.08     |             | 87.50       |             | -84.40              | 412.47   | 167.75  |     | 0.49    | 0.05     |
| 37 | 6,683         | 1.40           | 258.30         | 6655.95     | -404.48     |             | 83.00       |             | -79.89              | 412.91   | 168.40  |     | 0.16    | -0.05    |
| 38 | 6,870         | 2.10           | 125.00         | 6842.91     | -406.91     |             | 83.57       |             | -80.44              | 415.40   | 168.39  |     | 1.72    | 0.37     |
| 39 | 7,057         | 1.10           | 192.50         | 7029.85     | -410.63     |             | 85.99       |             | -82.83              | 419.54   | 168.17  |     | 1.05    | -0.53    |
| 40 | 7,244         | 1.60           | 168.80         | 7216.79     | -414.94     |             | 86.11       |             | -82.92              | 423.78   | 168.28  |     | 0.40    | 0.27     |
| 41 | 7,431         | 0.70           | 109.70         | 7403.76     | -417.89     |             | 87.69       |             | -84.48              | 426.99   | 168.15  |     | 0.74    | -0.48    |
| 42 | 7,619         | 0.30           | 88.90          | 7591.75     | -418.27     |             | 89.26       |             | -86.05              | 427.68   | 167.95  |     | 0.23    | -0.21    |
| 43 | 7,806         | 2.30           | 65.20          | 7778.70     | -416.68     |             | 93.16       |             | -89.96              | 426.97   | 167.40  |     | 1.08    | 1.07     |
| 44 | 7,993         | 3.00           | 73.40          | 7965.49     | -413.71     |             | 101.26      |             | -98.08              | 425.92   | 166.25  |     | 0.42    | 0.37     |
| 45 | 8,180         | 1.00           | 17.80          | 8152.38     | -410.76     |             | 106.45      |             | -103.29             | 424.33   | 165.47  |     | 1.37    | -1.07    |
| 46 | 8,368         | 1.00           | 304.30         | 8340.36     | -408.27     |             | 105.59      |             | -102.45             | 421.71   | 165.50  |     | 0.64    | 0.00     |
| 47 | 8,554         | 1.20           | 308.40         | 8526.33     | -406.15     |             | 102.72      |             | -99.60              | 418.94   | 165.81  |     | 0.12    | 0.11     |
| 48 | 8,741         | 1.40           | 282.00         | 8713.28     | -404.46     |             | 98.96       |             | -95.85              | 416.39   | 166.25  |     | 0.33    | 0.11     |
| 49 | 8,928         | 1.70           | 264.50         | 8900.21     | -404.25     |             | 93.96       |             | -90.85              | 415.02   | 166.91  |     | 0.30    | 0.16     |
| 50 | 9,115         | 4.60           | 284.40         | 9087.10     | -403.65     |             | 90.21       |             | -87.10              | 413.60   | 167.40  |     | 4.37    | 4.14     |
| 51 | 9,302         | 9.10           | 283.10         | 9274.19     | -402.36     |             | 84.87       |             | -81.78              | 411.22   | 168.09  |     | 9.79    | 9.78     |
| 52 | 9,489         | 14.50          | 279.20         | 9461.13     | -400.54     |             | 75.24       |             | -72.16              | 407.55   | 169.36  |     | 11.37   | 11.25    |
| 53 | 9,676         | 18.00          | 278.40         | 9648.08     | -398.58     |             | 62.52       |             | -59.46              | 403.46   | 171.09  |     | 7.62    | 7.61     |
| 54 | 9,863         | 22.10          | 276.30         | 9835.03     | -396.55     |             | 46.54       |             | -43.49              | 399.27   | 173.31  |     | 8.86    | 8.72     |
| 55 | 10,050        | 25.40          | 279.40         | 10022.00    | -393.99     |             | 28.20       |             | -25.17              | 395.00   | 175.91  |     | 7.67    | 7.17     |
| 56 | 10,237        | 31.00          | 278.40         | 10209.00    | -390.50     |             | 5.80        |             | -2.80               | 390.54   | 179.15  |     | 11.71   | 11.67    |
| 57 | 10,424        | 34.10          | 276.10         | 10396.00    | -387.40     |             | -18.75      |             | 21.72               | 387.85   | 182.77  |     | 7.26    | 6.74     |
| 58 | 10,611        | 37.10          | 272.40         | 10583.00    | -385.36     |             | -46.60      |             | 49.56               | 388.17   | 186.90  |     | 7.69    | 6.25     |
| 59 | 10,798        | 41.20          | 270.90         | 10770.00    | -384.54     |             | -75.63      |             | 78.58               | 391.91   | 191.13  |     | 9.15    | 8.91     |
| 60 | 10,985        | 46.60          | 269.20         | 10957.00    | -384.54     |             | -108.20     |             | 111.15              | 399.47   | 195.72  |     | 11.76   | 11.49    |
| 61 | 11,172        | 51.50          | 268.40         | 11144.00    | -385.27     |             | -142.93     |             | 145.88              | 410.93   | 200.35  |     | 10.73   | 10.65    |
| 62 | 11,359        | 55.70          | 269.60         | 11331.00    | -385.94     |             | -181.54     |             | 184.50              | 426.50   | 205.19  |     | 8.98    | 8.75     |
| 63 | 11,546        | 59.30          | 270.20         | 11518.00    | -386.00     |             | -220.33     |             | 223.29              | 444.46   | 209.72  |     | 7.90    | 7.83     |
| 64 | 11,733        | 62.40          | 270.30         | 11705.00    | -385.82     |             | -261.38     |             | 264.33              | 466.02   | 214.12  |     | 6.60    | 6.60     |
| 65 | 11,920        | 66.20          | 270.20         | 11892.00    | -385.64     |             | -302.82     |             | 305.77              | 490.32   | 218.14  |     | 8.26    | 8.26     |
| 66 | 12,107        | 70.90          | 273.40         | 12079.00    | -382.85     |             | -390.22     |             | 393.15              | 546.67   | 225.55  |     | 5.92    | 5.00     |



# SURVEY CALCULATION PROGRAM

11/2/16 9:20

|                                              |  |  |  |  |  |  |  |  |  |
|----------------------------------------------|--|--|--|--|--|--|--|--|--|
| Company: Matador Production Company          |  |  |  |  |  |  |  |  |  |
| Well Name: B Banker 33-23S-28E RB 226H       |  |  |  |  |  |  |  |  |  |
| Location: Eddy County, NM                    |  |  |  |  |  |  |  |  |  |
| Rig: Patterson #297                          |  |  |  |  |  |  |  |  |  |
| Job Number: DDMO-160309                      |  |  |  |  |  |  |  |  |  |
| API #: 30-015-43817                          |  |  |  |  |  |  |  |  |  |
| Vertical Section Azimuth: 269.56             |  |  |  |  |  |  |  |  |  |
| Survey Calculation Method: Minimum Curvature |  |  |  |  |  |  |  |  |  |
| PTB: MD 14,350                               |  |  |  |  |  |  |  |  |  |
| INC 91.5                                     |  |  |  |  |  |  |  |  |  |
| AZM 269                                      |  |  |  |  |  |  |  |  |  |
| TVD Feet                                     |  |  |  |  |  |  |  |  |  |
| N/S Feet                                     |  |  |  |  |  |  |  |  |  |
| E/W Feet                                     |  |  |  |  |  |  |  |  |  |
| Surface Vert Sec                             |  |  |  |  |  |  |  |  |  |
| Distance                                     |  |  |  |  |  |  |  |  |  |
| Closure Azm                                  |  |  |  |  |  |  |  |  |  |
| E/W                                          |  |  |  |  |  |  |  |  |  |
| VS                                           |  |  |  |  |  |  |  |  |  |
| 4944.04                                      |  |  |  |  |  |  |  |  |  |
| DLS/ 100                                     |  |  |  |  |  |  |  |  |  |
| BUR/ 100'                                    |  |  |  |  |  |  |  |  |  |
| 10.21                                        |  |  |  |  |  |  |  |  |  |
| 8.87                                         |  |  |  |  |  |  |  |  |  |
| 8.71                                         |  |  |  |  |  |  |  |  |  |
| 3.72                                         |  |  |  |  |  |  |  |  |  |
| -1.05                                        |  |  |  |  |  |  |  |  |  |
| 3.94                                         |  |  |  |  |  |  |  |  |  |
| 0.74                                         |  |  |  |  |  |  |  |  |  |
| -1.38                                        |  |  |  |  |  |  |  |  |  |
| -2.00                                        |  |  |  |  |  |  |  |  |  |
| -0.74                                        |  |  |  |  |  |  |  |  |  |
| 0.64                                         |  |  |  |  |  |  |  |  |  |
| 0.74                                         |  |  |  |  |  |  |  |  |  |
| -0.21                                        |  |  |  |  |  |  |  |  |  |
| -0.11                                        |  |  |  |  |  |  |  |  |  |
| -0.64                                        |  |  |  |  |  |  |  |  |  |
| -1.70                                        |  |  |  |  |  |  |  |  |  |
| 3.37                                         |  |  |  |  |  |  |  |  |  |
| -0.11                                        |  |  |  |  |  |  |  |  |  |
| -0.53                                        |  |  |  |  |  |  |  |  |  |
| -0.43                                        |  |  |  |  |  |  |  |  |  |
| 0.11                                         |  |  |  |  |  |  |  |  |  |
| 0.00                                         |  |  |  |  |  |  |  |  |  |
| -2.69                                        |  |  |  |  |  |  |  |  |  |
| 1.89                                         |  |  |  |  |  |  |  |  |  |
| 0.64                                         |  |  |  |  |  |  |  |  |  |
| 0.43                                         |  |  |  |  |  |  |  |  |  |
| 1.06                                         |  |  |  |  |  |  |  |  |  |
| -2.32                                        |  |  |  |  |  |  |  |  |  |
| 0.22                                         |  |  |  |  |  |  |  |  |  |
| 1.16                                         |  |  |  |  |  |  |  |  |  |
| 0.00                                         |  |  |  |  |  |  |  |  |  |
| -0.32                                        |  |  |  |  |  |  |  |  |  |
| 0.43                                         |  |  |  |  |  |  |  |  |  |
| 3.09                                         |  |  |  |  |  |  |  |  |  |

# SURVEY CALCULATION PROGRAM

11/2/16 9:20

|             |                             |
|-------------|-----------------------------|
| Company:    | Matador Production Company  |
| Well Name:  | B Banker 33-23S-28E RB 226H |
| Location:   | Eddy County, NM             |
| Rig:        | Patterson #297              |
| Job Number: | DDMO-160309                 |
| API #:      | 30-015-43817                |

|                       |      |                          |
|-----------------------|------|--------------------------|
| Magnetic Declination: | 7.21 | REFERENCED TO GRID NORTH |
|-----------------------|------|--------------------------|

|                           |        |
|---------------------------|--------|
| Vertical Section Azimuth: | 269.56 |
|---------------------------|--------|

|                     |        |
|---------------------|--------|
| Proposed Direction: | 269.56 |
|---------------------|--------|

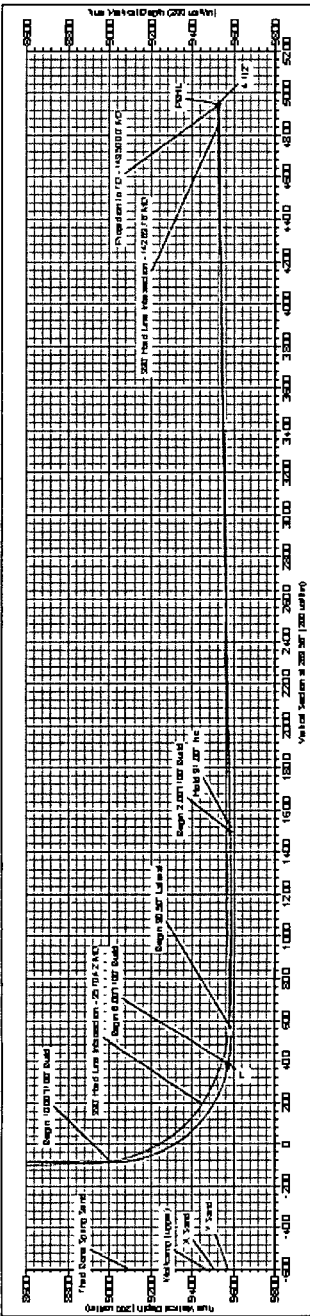
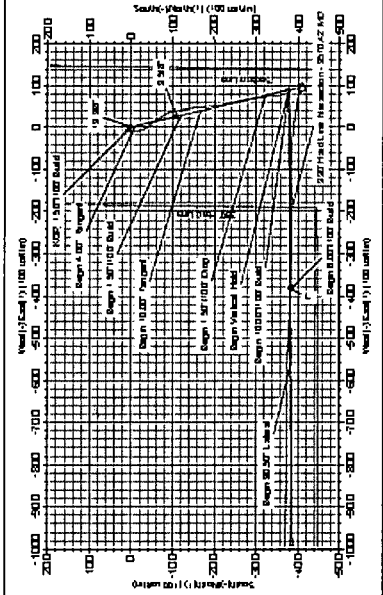
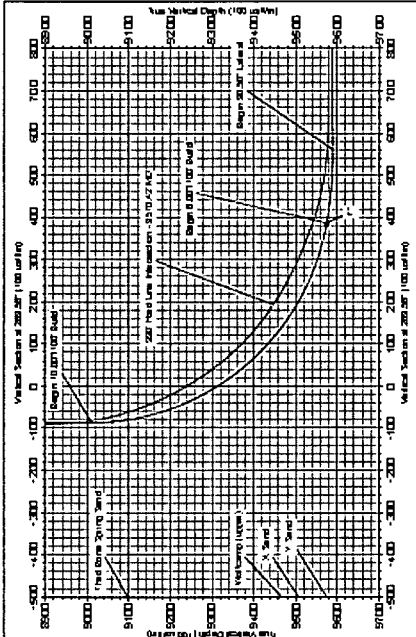
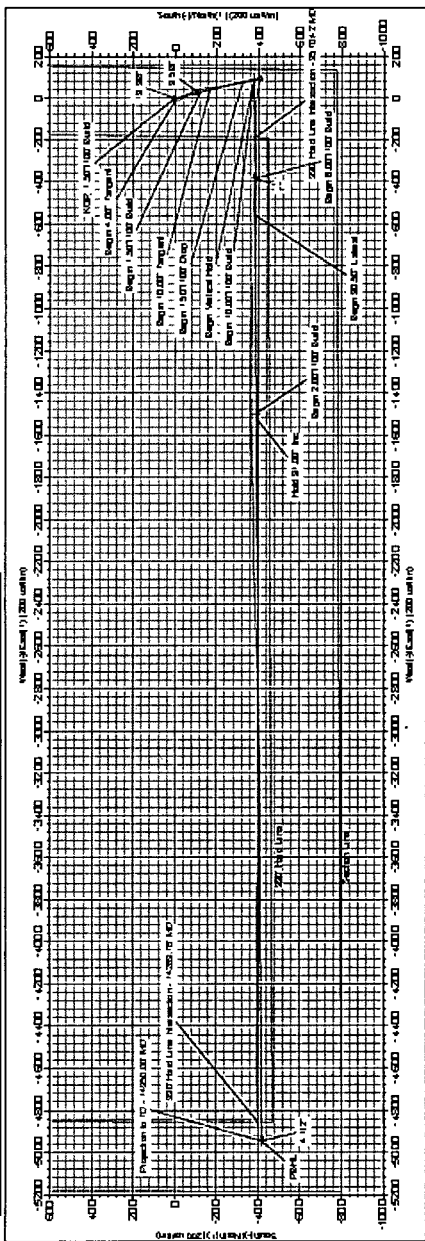
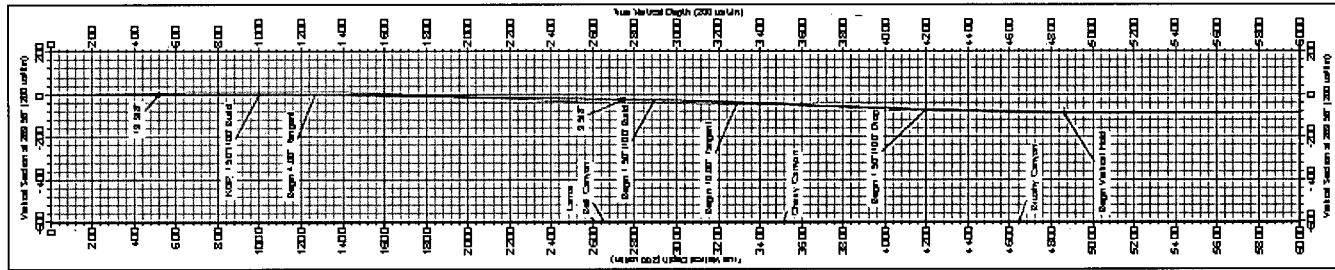
|                            |                   |
|----------------------------|-------------------|
| Survey Calculation Method: | Minimum Curvature |
|----------------------------|-------------------|

| PTB: | MD            | INC            |                | AZM         | TVD         | N/S         |                     | E/W      |          | VS          |              |
|------|---------------|----------------|----------------|-------------|-------------|-------------|---------------------|----------|----------|-------------|--------------|
|      | 14,350        |                | 91.5           | 269         | 9527.84     |             | -400.54             |          | -4941.11 |             | 4944.04      |
| #    | Depth<br>Feet | Inc<br>Degrees | Azm<br>Degrees | TVD<br>Feet | N/S<br>Feet | E/W<br>Feet | Surface<br>Vert Sec | Distance | Azm      | DLS/<br>100 | BUR/<br>100' |
| 100  | 12,982        | 91.70          | 272.40         | 9542.29     | -401.74     | -3573.81    | 3576.79             | 3596.32  | 263.59   | 2.50        | -2.42        |
| 101  | 13,076        | 90.50          | 272.30         | 9540.48     | -397.89     | -3667.71    | 3670.66             | 3689.23  | 263.81   | 1.28        | -1.28        |
| 102  | 13,170        | 89.00          | 271.30         | 9540.89     | -394.93     | -3761.66    | 3764.58             | 3782.33  | 264.01   | 1.92        | -1.60        |
| 103  | 13,264        | 89.80          | 270.20         | 9541.88     | -393.70     | -3855.64    | 3858.55             | 3875.69  | 264.17   | 1.45        | 0.85         |
| 104  | 13,359        | 91.70          | 269.80         | 9540.64     | -393.70     | -3950.63    | 3953.54             | 3970.20  | 264.31   | 2.04        | 2.00         |
| 105  | 13,453        | 89.40          | 268.90         | 9539.73     | -394.77     | -4044.61    | 4047.52             | 4063.83  | 264.43   | 2.63        | -2.45        |
| 106  | 13,547        | 90.20          | 268.90         | 9540.06     | -396.57     | -4138.59    | 4141.52             | 4157.55  | 264.53   | 0.85        | 0.85         |
| 107  | 13,641        | 93.10          | 270.70         | 9537.35     | -396.90     | -4232.54    | 4235.46             | 4251.11  | 264.64   | 3.63        | 3.09         |
| 108  | 13,735        | 93.30          | 270.40         | 9532.11     | -396.00     | -4326.39    | 4329.30             | 4344.47  | 264.77   | 0.38        | 0.21         |
| 109  | 13,829        | 90.80          | 270.30         | 9528.75     | -395.43     | -4420.32    | 4423.23             | 4437.97  | 264.89   | 2.66        | -2.66        |
| 110  | 13,923        | 87.20          | 270.40         | 9530.39     | -394.85     | -4514.29    | 4517.19             | 4531.52  | 265.00   | 3.83        | -3.83        |
| 111  | 14,018        | 89.00          | 269.50         | 9533.54     | -394.94     | -4609.23    | 4612.13             | 4626.12  | 265.10   | 2.12        | 1.89         |
| 112  | 14,112        | 91.90          | 269.40         | 9532.80     | -395.84     | -4703.21    | 4706.11             | 4719.84  | 265.19   | 3.09        | 3.09         |
| 113  | 14,205        | 90.40          | 268.40         | 9530.93     | -397.62     | -4796.17    | 4799.09             | 4812.63  | 265.26   | 1.94        | -1.61        |
| 114  | 14,278        | 91.50          | 269.00         | 9529.72     | -399.28     | -4869.14    | 4872.07             | 4885.49  | 265.31   | 1.72        | 1.51         |

London by NIM  
Cable 4-8, 4-13, 4-15, 4-16  
4-17, 4-18, 4-19, 4-20, 4-21, 4-22, 4-23, 4-24, 4-25, 4-26, 4-27, 4-28, 4-29, 4-30, 4-31, 4-32, 4-33, 4-34, 4-35, 4-36, 4-37, 4-38, 4-39, 4-40, 4-41, 4-42, 4-43, 4-44, 4-45, 4-46, 4-47, 4-48, 4-49, 4-50, 4-51, 4-52, 4-53, 4-54, 4-55, 4-56, 4-57, 4-58, 4-59, 4-60, 4-61, 4-62, 4-63, 4-64, 4-65, 4-66, 4-67, 4-68, 4-69, 4-70, 4-71, 4-72, 4-73, 4-74, 4-75, 4-76, 4-77, 4-78, 4-79, 4-80, 4-81, 4-82, 4-83, 4-84, 4-85, 4-86, 4-87, 4-88, 4-89, 4-90, 4-91, 4-92, 4-93, 4-94, 4-95, 4-96, 4-97, 4-98, 4-99, 4-100, 4-101, 4-102, 4-103, 4-104, 4-105, 4-106, 4-107, 4-108, 4-109, 4-110, 4-111, 4-112, 4-113, 4-114, 4-115, 4-116, 4-117, 4-118, 4-119, 4-120, 4-121, 4-122, 4-123, 4-124, 4-125, 4-126, 4-127, 4-128, 4-129, 4-130, 4-131, 4-132, 4-133, 4-134, 4-135, 4-136, 4-137, 4-138, 4-139, 4-140, 4-141, 4-142, 4-143, 4-144, 4-145, 4-146, 4-147, 4-148, 4-149, 4-150, 4-151, 4-152, 4-153, 4-154, 4-155, 4-156, 4-157, 4-158, 4-159, 4-160, 4-161, 4-162, 4-163, 4-164, 4-165, 4-166, 4-167, 4-168, 4-169, 4-170, 4-171, 4-172, 4-173, 4-174, 4-175, 4-176, 4-177, 4-178, 4-179, 4-180, 4-181, 4-182, 4-183, 4-184, 4-185, 4-186, 4-187, 4-188, 4-189, 4-190, 4-191, 4-192, 4-193, 4-194, 4-195, 4-196, 4-197, 4-198, 4-199, 4-200, 4-201, 4-202, 4-203, 4-204, 4-205, 4-206, 4-207, 4-208, 4-209, 4-210, 4-211, 4-212, 4-213, 4-214, 4-215, 4-216, 4-217, 4-218, 4-219, 4-220, 4-221, 4-222, 4-223, 4-224, 4-225, 4-226, 4-227, 4-228, 4-229, 4-230, 4-231, 4-232, 4-233, 4-234, 4-235, 4-236, 4-237, 4-238, 4-239, 4-240, 4-241, 4-242, 4-243, 4-244, 4-245, 4-246, 4-247, 4-248, 4-249, 4-250, 4-251, 4-252, 4-253, 4-254, 4-255, 4-256, 4-257, 4-258, 4-259, 4-260, 4-261, 4-262, 4-263, 4-264, 4-265, 4-266, 4-267, 4-268, 4-269, 4-270, 4-271, 4-272, 4-273, 4-274, 4-275, 4-276, 4-277, 4-278, 4-279, 4-280, 4-281, 4-282, 4-283, 4-284, 4-285, 4-286, 4-287, 4-288, 4-289, 4-290, 4-291, 4-292, 4-293, 4-294, 4-295, 4-296, 4-297, 4-298, 4-299, 4-300, 4-301, 4-302, 4-303, 4-304, 4-305, 4-306, 4-307, 4-308, 4-309, 4-310, 4-311, 4-312, 4-313, 4-314, 4-315, 4-316, 4-317, 4-318, 4-319, 4-320, 4-321, 4-322, 4-323, 4-324, 4-325, 4-326, 4-327, 4-328, 4-329, 4-330, 4-331, 4-332, 4-333, 4-334, 4-335, 4-336, 4-337, 4-338, 4-339, 4-340, 4-341, 4-342, 4-343, 4-344, 4-345, 4-346, 4-347, 4-348, 4-349, 4-350, 4-351, 4-352, 4-353, 4-354, 4-355, 4-356, 4-357, 4-358, 4-359, 4-360, 4-361, 4-362, 4-363, 4-364, 4-365, 4-366, 4-367, 4-368, 4-369, 4-370, 4-371, 4-372, 4-373, 4-374, 4-375, 4-376, 4-377, 4-378, 4-379, 4-380, 4-381, 4-382, 4-383, 4-384, 4-385, 4-386, 4-387, 4-388, 4-389, 4-390, 4-391, 4-392, 4-393, 4-394, 4-395, 4-396, 4-397, 4-398, 4-399, 4-400, 4-401, 4-402, 4-403, 4-404, 4-405, 4-406, 4-407, 4-408, 4-409, 4-410, 4-411, 4-412, 4-413, 4-414, 4-415, 4-416, 4-417, 4-418, 4-419, 4-420, 4-421, 4-422, 4-423, 4-424, 4-425, 4-426, 4-427, 4-428, 4-429, 4-430, 4-431, 4-432, 4-433, 4-434, 4-435, 4-436, 4-437, 4-438, 4-439, 4-440, 4-441, 4-442, 4-443, 4-444, 4-445, 4-446, 4-447, 4-448, 4-449, 4-450, 4-451, 4-452, 4-453, 4-454, 4-455, 4-456, 4-457, 4-458, 4-459, 4-460, 4-461, 4-462, 4-463, 4-464, 4-465, 4-466, 4-467, 4-468, 4-469, 4-470, 4-471, 4-472, 4-473, 4-474, 4-475, 4-476, 4-477, 4-478, 4-479, 4-480, 4-481, 4-482, 4-483, 4-484, 4-485, 4-486, 4-487, 4-488, 4-489, 4-490, 4-491, 4-492, 4-493, 4-494, 4-495, 4-496, 4-497, 4-498, 4-499, 4-500, 4-501, 4-502, 4-503, 4-504, 4-505, 4-506, 4-507, 4-508, 4-509, 4-510, 4-511, 4-512, 4-513, 4-514, 4-515, 4-516, 4-517, 4-518, 4-519, 4-520, 4-521, 4-522, 4-523, 4-524, 4-525, 4-526, 4-527, 4-528, 4-529, 4-530, 4-531, 4-532, 4-533, 4-534, 4-535, 4-536, 4-537, 4-538, 4-539, 4-540, 4-541, 4-542, 4-543, 4-544, 4-545, 4-546, 4-547, 4-548, 4-549, 4-550, 4-551, 4-552, 4-553, 4-554, 4-555, 4-556, 4-557, 4-558, 4-559, 4-560, 4-561, 4-562, 4-563, 4-564, 4-565, 4-566, 4-567, 4-568, 4-569, 4-570, 4-571, 4-572, 4-573, 4-574, 4-575, 4-576, 4-577, 4-578, 4-579, 4-580, 4-581, 4-582, 4-583, 4-584, 4-585, 4-586, 4-587, 4-588, 4-589, 4-590, 4-591, 4-592, 4-593, 4-594, 4-595, 4-596, 4-597, 4-598, 4-599, 4-600, 4-601, 4-602, 4-603, 4-604, 4-605, 4-606, 4-607, 4-608, 4

[illegible]

| WELL DETAILS: PZ 204 |       |             |                  |                |
|----------------------|-------|-------------|------------------|----------------|
|                      |       | Chard Unit. | 2020 00          |                |
| 144-5                | 12-24 | Nothing     |                  | Longitude      |
| 0.00                 | 0.00  | 459,000.00  | 92° 15' 42.70" N | 104° 51' 21" W |





## **Matador Resources**

**Eddy County, New Mexico (NAD 27)**

**B Banker 33-23S-28E RB**

**#226H**

**Wellbore #1**

**Design: Surveys**

## **Standard Survey Report**

**03 August, 2016**



# MS Energy Services

## Survey Report



|           |                                  |                              |                                   |
|-----------|----------------------------------|------------------------------|-----------------------------------|
| Company:  | Matador Resources                | Local Co-ordinate Reference: | Well #226H                        |
| Project:  | Eddy County, New Mexico (NAD 27) | TVD Reference:               | Rig @ 3087.00usft (Patterson 297) |
| Site:     | B Banker 33-23S-28E RB           | MD Reference:                | Rig @ 3087.00usft (Patterson 297) |
| Well:     | #226H                            | North Reference:             | Grid                              |
| Wellbore: | Wellbore #1                      | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | Surveys                          | Database:                    | EDM Conroe                        |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Eddy County, New Mexico (NAD 27)     |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                      |       |           |                     |                  |
|----------------------|-------|-----------|---------------------|------------------|
| Well                 | #226H |           |                     |                  |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 459,685.62 usft  |
|                      | +E/-W | 0.00 usft | Easting:            | 577,166.63 usft  |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: | 0.00 usft        |
|                      |       |           | Latitude:           | 32° 15' 48.765 N |
|                      |       |           | Longitude:          | 104° 5' 1.277 W  |
|                      |       |           | Ground Level:       | 3,058.00 usft    |

|          |             |  |  |  |
|----------|-------------|--|--|--|
| Wellbore | Wellbore #1 |  |  |  |
|----------|-------------|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | BGGM2016   | 7/15/2016   | 7.34            | 60.03         | 48,084              |

|        |         |  |  |  |
|--------|---------|--|--|--|
| Design | Surveys |  |  |  |
|--------|---------|--|--|--|

|              |     |        |        |                    |
|--------------|-----|--------|--------|--------------------|
| Audit Notes: |     |        |        |                    |
| Version:     | 1.0 | Phase: | ACTUAL | Tie On Depth: 0.00 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|-------------------|-------------------------|--------------|--------------|---------------|
|                   | 0.00                    | 0.00         | 0.00         | 269.56        |

| Survey Program | Date 8/3/2016 |                      |           |                     |
|----------------|---------------|----------------------|-----------|---------------------|
| From (usft)    | To (usft)     | Survey (Wellbore)    | Tool Name | Description         |
| 161.00         | 14,350.00     | MS MWD (Wellbore #1) | MWD       | OWSG MWD - Standard |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 161.00                | 1.50            | 338.00      | 160.98                | 1.95         | -0.79        | 0.77                    | 0.93                    | 0.93                   | 0.00                  |
| 290.00                | 1.90            | 339.00      | 289.92                | 5.52         | -2.19        | 2.15                    | 0.31                    | 0.31                   | 0.78                  |
| 470.00                | 2.40            | 327.00      | 469.80                | 11.46        | -5.31        | 5.22                    | 0.37                    | 0.28                   | -6.67                 |
| 622.00                | 2.20            | 323.80      | 621.68                | 16.49        | -8.77        | 8.64                    | 0.16                    | -0.13                  | -2.11                 |
| 801.00                | 2.40            | 181.90      | 800.62                | 15.51        | -10.92       | 10.80                   | 2.43                    | 0.11                   | -79.27                |
| 984.00                | 1.90            | 176.00      | 983.49                | 8.66         | -10.84       | 10.77                   | 0.30                    | -0.27                  | -3.22                 |
| 1,171.00              | 4.40            | 180.00      | 1,170.19              | -1.61        | -10.62       | 10.63                   | 1.34                    | 1.34                   | 2.14                  |
| 1,358.00              | 3.50            | 179.80      | 1,356.74              | -14.49       | -10.60       | 10.71                   | 0.48                    | -0.48                  | -0.11                 |
| 1,544.00              | 5.10            | 150.00      | 1,542.24              | -27.33       | -6.45        | 6.66                    | 1.45                    | 0.86                   | -16.02                |
| 1,731.00              | 4.10            | 148.20      | 1,728.63              | -40.21       | 1.23         | -0.92                   | 0.54                    | -0.53                  | -0.96                 |
| 1,918.00              | 4.60            | 135.90      | 1,915.10              | -51.28       | 9.97         | -9.58                   | 0.56                    | 0.27                   | -6.58                 |
| 2,105.00              | 4.40            | 152.30      | 2,101.53              | -63.02       | 18.53        | -18.04                  | 0.69                    | -0.11                  | 8.77                  |
| 2,293.00              | 5.10            | 143.60      | 2,288.88              | -76.13       | 26.84        | -26.25                  | 0.53                    | 0.37                   | -4.63                 |
| 2,480.00              | 4.60            | 153.60      | 2,475.22              | -89.53       | 35.10        | -34.42                  | 0.52                    | -0.27                  | 5.35                  |



# MS Energy Services

## Survey Report



|                  |                                  |                                     |                                   |
|------------------|----------------------------------|-------------------------------------|-----------------------------------|
| <b>Company:</b>  | Matador Resources                | <b>Local Co-ordinate Reference:</b> | Well #226H                        |
| <b>Project:</b>  | Eddy County, New Mexico (NAD 27) | <b>TVD Reference:</b>               | Rig @ 3087.00usft (Patterson 297) |
| <b>Site:</b>     | B Banker 33-23S-28E RB           | <b>MD Reference:</b>                | Rig @ 3087.00usft (Patterson 297) |
| <b>Well:</b>     | #226H                            | <b>North Reference:</b>             | Grid                              |
| <b>Wellbore:</b> | Wellbore #1                      | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Design:</b>   | Surveys                          | <b>Database:</b>                    | EDM Conroe                        |

| Survey                                 |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                  | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 2,667.00                               | 3.10            | 183.60      | 2,661.81              | -101.30      | 38.12        | -37.34                  | 1.32                    | -0.80                  | 16.04                 |
| 2,752.00                               | 2.70            | 184.90      | 2,746.70              | -105.59      | 37.81        | -36.99                  | 0.48                    | -0.47                  | 1.53                  |
| 2,939.00                               | 5.80            | 161.50      | 2,933.17              | -118.94      | 40.43        | -39.51                  | 1.87                    | 1.66                   | -12.51                |
| 3,126.00                               | 7.20            | 170.30      | 3,118.97              | -139.45      | 45.40        | -44.33                  | 0.92                    | 0.75                   | 4.71                  |
| 3,314.00                               | 9.40            | 177.20      | 3,305.00              | -166.40      | 48.14        | -46.86                  | 1.28                    | 1.17                   | 3.67                  |
| 3,501.00                               | 9.80            | 171.60      | 3,489.38              | -197.40      | 51.21        | -49.69                  | 0.54                    | 0.21                   | -2.99                 |
| 3,688.00                               | 11.10           | 167.60      | 3,673.28              | -230.73      | 57.40        | -55.63                  | 0.80                    | 0.70                   | -2.14                 |
| 3,875.00                               | 10.60           | 168.70      | 3,856.93              | -265.18      | 64.63        | -62.60                  | 0.29                    | -0.27                  | 0.59                  |
| 4,063.00                               | 9.40            | 172.40      | 4,042.08              | -297.35      | 70.05        | -67.77                  | 0.72                    | -0.64                  | 1.97                  |
| 4,250.00                               | 8.60            | 174.00      | 4,226.77              | -326.39      | 73.53        | -71.03                  | 0.45                    | -0.43                  | 0.86                  |
| 4,437.00                               | 6.90            | 171.10      | 4,412.06              | -351.40      | 76.73        | -74.03                  | 0.93                    | -0.91                  | -1.55                 |
| 4,624.00                               | 6.10            | 153.50      | 4,597.87              | -371.39      | 82.91        | -80.05                  | 1.14                    | -0.43                  | -9.41                 |
| 4,811.00                               | 3.20            | 146.10      | 4,784.24              | -384.62      | 90.25        | -87.30                  | 1.58                    | -1.55                  | -3.96                 |
| 4,886.56                               | 2.10            | 147.41      | 4,859.72              | -387.54      | 92.18        | -89.20                  | 1.45                    | -1.45                  | 1.74                  |
| vert v1 - B Banker 33-23S-28E RB #226H |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,998.00                               | 0.50            | 159.90      | 4,971.13              | -389.72      | 93.44        | -90.45                  | 1.45                    | -1.44                  | 11.21                 |
| 5,185.00                               | 0.80            | 184.10      | 5,158.11              | -391.78      | 93.63        | -90.62                  | 0.21                    | 0.16                   | 12.94                 |
| 5,373.00                               | 0.50            | 190.40      | 5,346.10              | -393.90      | 93.39        | -90.36                  | 0.16                    | -0.16                  | 3.35                  |
| 5,560.00                               | 0.20            | 198.70      | 5,533.10              | -395.01      | 93.14        | -90.10                  | 0.16                    | -0.16                  | 4.44                  |
| 5,747.00                               | 0.40            | 187.80      | 5,720.10              | -395.97      | 92.94        | -89.90                  | 0.11                    | 0.11                   | -5.83                 |
| 5,934.00                               | 0.50            | 160.00      | 5,907.09              | -397.38      | 93.13        | -90.08                  | 0.13                    | 0.05                   | -14.87                |
| 6,121.00                               | 0.40            | 268.00      | 6,094.09              | -398.17      | 92.76        | -89.70                  | 0.39                    | -0.05                  | 57.75                 |
| 6,308.00                               | 1.40            | 210.70      | 6,281.06              | -400.16      | 90.94        | -87.87                  | 0.66                    | 0.53                   | -30.64                |
| 6,496.00                               | 1.50            | 247.40      | 6,469.01              | -403.08      | 87.50        | -84.40                  | 0.49                    | 0.05                   | 19.52                 |
| 6,683.00                               | 1.40            | 258.30      | 6,655.95              | -404.48      | 83.00        | -79.89                  | 0.16                    | -0.05                  | 5.83                  |
| 6,870.00                               | 2.10            | 125.00      | 6,842.91              | -406.91      | 83.57        | -80.44                  | 1.72                    | 0.37                   | -71.28                |
| 7,057.00                               | 1.10            | 192.50      | 7,029.85              | -410.63      | 85.99        | -82.83                  | 1.05                    | -0.53                  | 36.10                 |
| 7,244.00                               | 1.60            | 168.80      | 7,216.79              | -414.94      | 86.11        | -82.92                  | 0.40                    | 0.27                   | -12.67                |
| 7,431.00                               | 0.70            | 109.70      | 7,403.76              | -417.89      | 87.69        | -84.48                  | 0.74                    | -0.48                  | -31.60                |
| 7,619.00                               | 0.30            | 88.90       | 7,591.75              | -418.27      | 89.26        | -86.05                  | 0.23                    | -0.21                  | -11.06                |
| 7,806.00                               | 2.30            | 65.20       | 7,778.70              | -416.68      | 93.16        | -89.96                  | 1.08                    | 1.07                   | -12.67                |
| 7,993.00                               | 3.00            | 73.40       | 7,965.49              | -413.71      | 101.26       | -98.08                  | 0.42                    | 0.37                   | 4.39                  |
| 8,180.00                               | 1.00            | 17.80       | 8,152.38              | -410.76      | 106.45       | -103.29                 | 1.37                    | -1.07                  | -29.73                |
| 8,368.00                               | 1.00            | 304.30      | 8,340.36              | -408.27      | 105.59       | -102.45                 | 0.64                    | 0.00                   | -39.10                |
| 8,554.00                               | 1.20            | 308.40      | 8,526.33              | -406.15      | 102.72       | -99.60                  | 0.12                    | 0.11                   | 2.20                  |
| 8,741.00                               | 1.40            | 282.00      | 8,713.28              | -404.46      | 98.96        | -95.85                  | 0.33                    | 0.11                   | -14.12                |
| 8,928.00                               | 1.70            | 264.50      | 8,900.21              | -404.25      | 93.96        | -90.85                  | 0.30                    | 0.16                   | -9.36                 |
| 8,998.00                               | 4.60            | 284.40      | 8,970.10              | -403.65      | 90.21        | -87.10                  | 4.37                    | 4.14                   | 28.43                 |
| 9,044.00                               | 9.10            | 283.10      | 9,015.76              | -402.36      | 84.87        | -81.78                  | 9.79                    | 9.78                   | -2.83                 |
| 9,092.00                               | 14.50           | 279.20      | 9,062.73              | -400.54      | 75.24        | -72.16                  | 11.37                   | 11.25                  | -8.13                 |
| 9,138.00                               | 18.00           | 278.40      | 9,106.89              | -398.58      | 62.52        | -59.46                  | 7.62                    | 7.61                   | -1.74                 |
| 9,185.00                               | 22.10           | 276.30      | 9,151.03              | -396.55      | 46.54        | -43.49                  | 8.86                    | 8.72                   | -4.47                 |
| 9,231.00                               | 25.40           | 279.40      | 9,193.13              | -393.99      | 28.20        | -25.17                  | 7.67                    | 7.17                   | 6.74                  |
| 9,279.00                               | 31.00           | 278.40      | 9,235.42              | -390.50      | 5.80         | -2.80                   | 11.71                   | 11.67                  | -2.08                 |



MS Energy Services  
Survey Report



|           |                                  |                              |                                   |
|-----------|----------------------------------|------------------------------|-----------------------------------|
| Company:  | Matador Resources                | Local Co-ordinate Reference: | Well #226H                        |
| Project:  | Eddy County, New Mexico (NAD 27) | TVD Reference:               | Rig @ 3087.00usft (Patterson 297) |
| Site:     | B Banker 33-23S-28E RB           | MD Reference:                | Rig @ 3087.00usft (Patterson 297) |
| Well:     | #226H                            | North Reference:             | Grid                              |
| Wellbore: | Wellbore #1                      | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | Surveys                          | Database:                    | EDM Conroe                        |

| Survey                                    |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                     | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 9,325.00                                  | 34.10           | 276.10      | 9,274.19              | -387.40      | -18.75       | 21.72                   | 7.26                    | 6.74                   | -5.00                 |
| 9,373.00                                  | 37.10           | 272.40      | 9,313.22              | -385.36      | -46.60       | 49.56                   | 7.69                    | 6.25                   | -7.71                 |
| 9,419.00                                  | 41.20           | 270.90      | 9,348.88              | -384.54      | -75.63       | 78.58                   | 9.15                    | 8.91                   | -3.26                 |
| 9,466.00                                  | 46.60           | 269.20      | 9,382.74              | -384.54      | -108.20      | 111.15                  | 11.76                   | 11.49                  | -3.62                 |
| 9,512.00                                  | 51.50           | 268.40      | 9,412.88              | -385.27      | -142.93      | 145.88                  | 10.73                   | 10.65                  | -1.74                 |
| 9,560.00                                  | 55.70           | 269.60      | 9,441.35              | -385.94      | -181.54      | 184.50                  | 8.98                    | 8.75                   | 2.50                  |
| 9,570.42                                  | 56.52           | 269.74      | 9,447.16              | -385.99      | -190.19      | 193.15                  | 7.90                    | 7.82                   | 1.35                  |
| 330' Hard Line Intersection - 9570.42' MD |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,606.00                                  | 59.30           | 270.20      | 9,466.07              | -386.00      | -220.33      | 223.29                  | 7.90                    | 7.83                   | 1.29                  |
| 9,653.00                                  | 62.40           | 270.30      | 9,488.96              | -385.82      | -261.38      | 264.33                  | 6.60                    | 6.60                   | 0.21                  |
| 9,699.00                                  | 66.20           | 270.20      | 9,508.90              | -385.64      | -302.82      | 305.77                  | 8.26                    | 8.26                   | -0.22                 |
| 9,793.00                                  | 70.90           | 273.40      | 9,543.27              | -382.85      | -390.22      | 393.15                  | 5.92                    | 5.00                   | 3.40                  |
| 9,840.00                                  | 75.70           | 273.40      | 9,556.78              | -380.18      | -435.15      | 438.06                  | 10.21                   | 10.21                  | 0.00                  |
| 9,964.00                                  | 86.50           | 271.30      | 9,575.93              | -375.20      | -557.37      | 560.23                  | 8.87                    | 8.71                   | -1.69                 |
| 10,058.00                                 | 90.00           | 270.30      | 9,578.80              | -373.89      | -651.30      | 654.15                  | 3.87                    | 3.72                   | -1.06                 |
| 10,153.00                                 | 89.00           | 269.70      | 9,579.63              | -373.89      | -746.29      | 749.14                  | 1.23                    | -1.05                  | -0.63                 |
| 10,247.00                                 | 92.70           | 271.20      | 9,578.24              | -373.15      | -840.26      | 843.10                  | 4.25                    | 3.94                   | 1.60                  |
| 10,342.00                                 | 93.40           | 271.70      | 9,573.18              | -370.75      | -935.09      | 937.91                  | 0.91                    | 0.74                   | 0.53                  |
| 10,436.00                                 | 92.10           | 271.00      | 9,568.67              | -368.54      | -1,028.96    | 1,031.76                | 1.57                    | -1.38                  | -0.74                 |
| 10,531.00                                 | 90.20           | 270.90      | 9,566.77              | -366.97      | -1,123.92    | 1,126.70                | 2.00                    | -2.00                  | -0.11                 |
| 10,625.00                                 | 89.50           | 270.40      | 9,567.01              | -365.90      | -1,217.91    | 1,220.69                | 0.92                    | -0.74                  | -0.53                 |
| 10,719.00                                 | 90.10           | 271.00      | 9,567.34              | -364.75      | -1,311.90    | 1,314.67                | 0.90                    | 0.64                   | 0.64                  |
| 10,813.00                                 | 90.80           | 269.80      | 9,566.60              | -364.10      | -1,405.90    | 1,408.65                | 1.48                    | 0.74                   | -1.28                 |
| 10,904.19                                 | 90.61           | 269.12      | 9,565.48              | -364.95      | -1,497.08    | 1,499.83                | 0.77                    | -0.21                  | -0.74                 |
| T1 v1 - B Banker 33-23S-28E RB #226H      |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,907.00                                 | 90.60           | 269.10      | 9,565.46              | -365.00      | -1,499.88    | 1,502.64                | 0.77                    | -0.21                  | -0.74                 |
| 11,002.00                                 | 90.50           | 268.90      | 9,564.54              | -366.66      | -1,594.87    | 1,597.63                | 0.24                    | -0.11                  | -0.21                 |
| 11,096.00                                 | 89.90           | 268.90      | 9,564.22              | -368.46      | -1,688.85    | 1,691.63                | 0.64                    | -0.64                  | 0.00                  |
| 11,190.00                                 | 88.30           | 268.10      | 9,565.69              | -370.92      | -1,782.80    | 1,785.60                | 1.90                    | -1.70                  | -0.85                 |
| 11,285.00                                 | 91.50           | 268.90      | 9,565.86              | -373.41      | -1,877.75    | 1,880.57                | 3.47                    | 3.37                   | 0.84                  |
| 11,379.00                                 | 91.40           | 269.00      | 9,563.48              | -375.13      | -1,971.71    | 1,974.53                | 0.15                    | -0.11                  | 0.11                  |
| 11,473.00                                 | 90.90           | 268.90      | 9,561.59              | -376.85      | -2,065.67    | 2,068.51                | 0.54                    | -0.53                  | -0.11                 |
| 11,567.00                                 | 90.50           | 268.90      | 9,560.44              | -378.66      | -2,159.65    | 2,162.49                | 0.43                    | -0.43                  | 0.00                  |
| 11,661.00                                 | 90.60           | 268.80      | 9,559.54              | -380.54      | -2,253.63    | 2,256.48                | 0.15                    | 0.11                   | -0.11                 |
| 11,756.00                                 | 90.60           | 268.20      | 9,558.55              | -383.03      | -2,348.59    | 2,351.46                | 0.63                    | 0.00                   | -0.63                 |
| 11,849.00                                 | 88.10           | 267.50      | 9,559.60              | -386.52      | -2,441.51    | 2,444.40                | 2.79                    | -2.69                  | -0.75                 |
| 11,944.00                                 | 89.90           | 267.80      | 9,561.26              | -390.41      | -2,536.41    | 2,539.33                | 1.92                    | 1.89                   | 0.32                  |
| 12,038.00                                 | 90.50           | 268.50      | 9,560.93              | -393.45      | -2,630.36    | 2,633.30                | 0.98                    | 0.64                   | 0.74                  |
| 12,132.00                                 | 90.90           | 268.20      | 9,559.78              | -396.15      | -2,724.31    | 2,727.27                | 0.53                    | 0.43                   | -0.32                 |
| 12,226.00                                 | 91.90           | 269.60      | 9,557.49              | -397.96      | -2,818.26    | 2,821.24                | 1.83                    | 1.06                   | 1.49                  |
| 12,321.00                                 | 89.70           | 268.40      | 9,556.16              | -399.61      | -2,913.23    | 2,916.22                | 2.64                    | -2.32                  | -1.26                 |
| 12,414.00                                 | 89.90           | 268.50      | 9,556.48              | -402.13      | -3,006.20    | 3,009.20                | 0.24                    | 0.22                   | 0.11                  |
| 12,509.00                                 | 91.00           | 269.00      | 9,555.74              | -404.20      | -3,101.17    | 3,104.18                | 1.27                    | 1.16                   | 0.53                  |
| 12,604.00                                 | 91.00           | 269.20      | 9,554.08              | -405.69      | -3,196.14    | 3,199.17                | 0.21                    | 0.00                   | 0.21                  |



|           |                                  |                              |                                   |
|-----------|----------------------------------|------------------------------|-----------------------------------|
| Company:  | Matador Resources                | Local Co-ordinate Reference: | Well #226H                        |
| Project:  | Eddy County, New Mexico (NAD 27) | TVD Reference:               | Rig @ 3087.00usft (Patterson 297) |
| Site:     | B Banker 33-23S-28E RB           | MD Reference:                | Rig @ 3087.00usft (Patterson 297) |
| Well:     | #226H                            | North Reference:             | Grid                              |
| Wellbore: | Wellbore #1                      | Survey Calculation Method:   | Minimum Curvature                 |
| Design:   | Surveys                          | Database:                    | EDM Conroe                        |

| Survey                                                                   |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------------------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                                                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 12,699.00                                                                | 90.70           | 269.60      | 9,552.67              | -406.69      | -3,291.13    | 3,294.15                | 0.53                    | -0.32                  | 0.42                  |
| 12,793.00                                                                | 91.10           | 270.20      | 9,551.19              | -406.85      | -3,385.12    | 3,388.14                | 0.77                    | 0.43                   | 0.64                  |
| 12,887.00                                                                | 94.00           | 271.80      | 9,547.01              | -405.22      | -3,479.00    | 3,482.00                | 3.52                    | 3.09                   | 1.70                  |
| 12,982.00                                                                | 91.70           | 272.40      | 9,542.29              | -401.74      | -3,573.81    | 3,576.79                | 2.50                    | -2.42                  | 0.63                  |
| 13,076.00                                                                | 90.50           | 272.30      | 9,540.48              | -397.89      | -3,667.71    | 3,670.66                | 1.28                    | -1.28                  | -0.11                 |
| 13,170.00                                                                | 89.00           | 271.30      | 9,540.89              | -394.93      | -3,761.66    | 3,764.58                | 1.92                    | -1.60                  | -1.06                 |
| 13,264.00                                                                | 89.80           | 270.20      | 9,541.88              | -393.70      | -3,855.64    | 3,858.55                | 1.45                    | 0.85                   | -1.17                 |
| 13,359.00                                                                | 91.70           | 269.80      | 9,540.64              | -393.70      | -3,950.63    | 3,953.54                | 2.04                    | 2.00                   | -0.42                 |
| 13,453.00                                                                | 89.40           | 268.90      | 9,539.73              | -394.77      | -4,044.61    | 4,047.52                | 2.63                    | -2.45                  | -0.96                 |
| 13,547.00                                                                | 90.20           | 268.90      | 9,540.06              | -396.57      | -4,138.59    | 4,141.52                | 0.85                    | 0.85                   | 0.00                  |
| 13,641.00                                                                | 93.10           | 270.70      | 9,537.36              | -396.90      | -4,232.54    | 4,235.46                | 3.63                    | 3.09                   | 1.91                  |
| 13,735.00                                                                | 93.30           | 270.40      | 9,532.11              | -396.00      | -4,326.39    | 4,329.30                | 0.38                    | 0.21                   | -0.32                 |
| 13,829.00                                                                | 90.80           | 270.30      | 9,528.75              | -395.43      | -4,420.32    | 4,423.23                | 2.66                    | -2.66                  | -0.11                 |
| 13,923.00                                                                | 87.20           | 270.40      | 9,530.39              | -394.85      | -4,514.29    | 4,517.19                | 3.83                    | -3.83                  | 0.11                  |
| 14,018.00                                                                | 89.00           | 269.50      | 9,533.54              | -394.94      | -4,609.23    | 4,612.13                | 2.12                    | 1.89                   | -0.95                 |
| 14,112.00                                                                | 91.90           | 269.40      | 9,532.80              | -395.84      | -4,703.21    | 4,706.12                | 3.09                    | 3.09                   | -0.11                 |
| 14,205.00                                                                | 90.40           | 268.40      | 9,530.93              | -397.62      | -4,796.17    | 4,799.09                | 1.94                    | -1.61                  | -1.08                 |
| 14,263.76                                                                | 91.29           | 268.88      | 9,530.07              | -399.02      | -4,854.91    | 4,857.83                | 1.72                    | 1.51                   | 0.82                  |
| 330' Hard Line Intersection - 14263.76' MD                               |                 |             |                       |              |              |                         |                         |                        |                       |
| 14,278.00                                                                | 91.50           | 269.00      | 9,529.72              | -399.28      | -4,869.14    | 4,872.07                | 1.72                    | 1.51                   | 0.82                  |
| 14,350.00                                                                | 91.50           | 269.00      | 9,527.84              | -400.54      | -4,941.11    | 4,944.04                | 0.00                    | 0.00                   | 0.00                  |
| Projection to TD - 14350.00' MD - PBHL v1 - B Banker 33-23S-28E RB #226H |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Annotations    |                       |                   |              |                                            |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                    |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                            |
| 9,570.42              | 9,447.16              | -385.99           | -190.19      | 330' Hard Line Intersection - 9570.42' MD  |
| 14,263.76             | 9,530.07              | -399.02           | -4,854.91    | 330' Hard Line Intersection - 14263.76' MD |
| 14,350.00             | 9,527.84              | -400.54           | -4,941.11    | Projection to TD - 14350.00' MD            |